WALLACES' FARMER
and Iowa Homestead

IOWA'S LEADING FARM NEWSPAPER JULY 16, 1955

Cull out the backfat

USE backfat thickness as a guide in selecting breeding stock? Some hog farmers are putting this relatively new idea into practice.

"It's one of the things we've got to do to produce meatier hogs," declares John Beckett, purebred hog breeder from Page county, Iowa. Research shows backfat thickness is closely related to meat type.

Beckett's gilts (above) were selected first on the basis of litter size, weaning weights and body conformation. Then, when gilts were six months old, Beckett culled on basis of backfat thickness—measured with a device called a "backfat probe."

Gilts were mated with Beckett's junior herd sire (right). At six months, the boar weighed 250 pounds and had 1.27 inches of backfat.

For more on meat type hogs, see page 14.

- No bachelor surplus . . . 12
- Air conditioner facts . . 26
- Wives tell troubles . . . 44
- Hog buyer tells secrets 52

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*Bul. 697, Univ. of Ill.

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McCormick No. 2-PR . . . two-row pull-type picker, with 10-roll husking bed, clean-husks 100-bushel-plus corn. It has a shelled corn saver . . . wide, rear-delivery elevator and other advantages of the 2-ME. The No. 1-PR is a one-row pull-type with 6-roll husking bed.

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See how you can crib extra bushels from every field with the corn-saving McCormick picker that fits your acreage and power. Ask your IH dealer about the IH Income Purchase Plan of Buying that lets your picker pay for itself in use! Send for FREE corn picking cost analysis chart, today!

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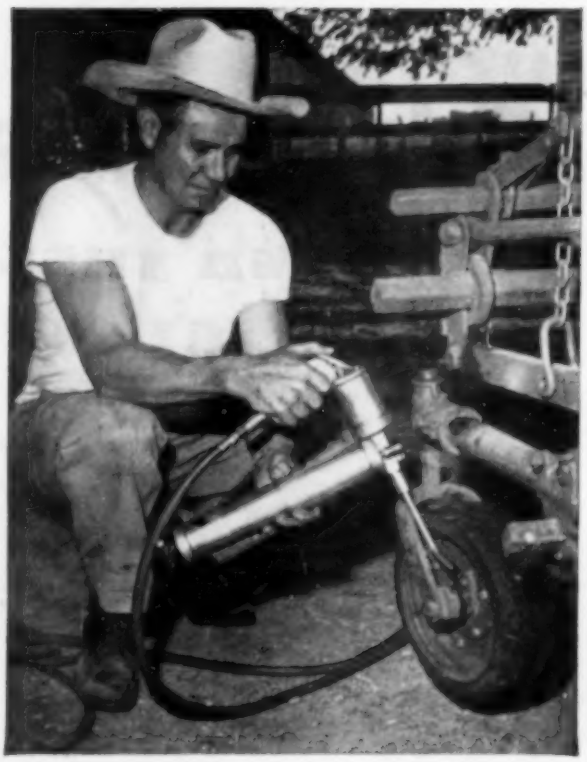

"We need a change" was the verdict given on the present federal farm program by Charles Cowen, Jefferson county, Iowa. More pictures of farm voters with ideas on this subject on page 61.

INSIDE STUFF

FARM WOMEN vote in the Wallace-Homestead Poll. But not always the same way men do.

WHEN ASKED about the present federal farm program, 37 percent of the men said, "It isn't helping us." But only 23 percent of the women said the same.

DID YOU notice that the added wages in steel will bring costs in the industry up $104 millions a year? But the bill to consumers will go up $188 million.

RUSSIAN VISITORS to the Corn Belt will be welcome. But they all seem to be administrators and professors. No dirt farmers. It's fine that the delegation we're sending to Russia includes a number of real farmers.

WHO WON the wheat vote? In Denver, before the referendum, Marvin Russell of the Colorado Farmer reported that Secretary Benson "said that if wheat marketing quotas are turned down in the referendum, he will certainly take it as an indication that wheat farmers agree with him."

BUT 77.5 PERCENT of those who voted did not agree with the secretary. Biggest surprise was vote in eastern Corn Belt, where 59 percent of wheat farmers in Illinois and Indiana voted for quotas.

ILLINOIS and Indiana farmers aren't dependent on wheat prices. But farmers there—as in Iowa—knew what 50 percent loans on wheat would do to corn and to livestock.

IOWA FARMERS should notice that the new egg grading law is being challenged in the courts. That was to be expected. Dealers who have specialized in selling ungraded eggs naturally hate to change over to a different market.

FAST DRIVING causes about half the fatal car accidents, according to the Association of Casualty and Surety Companies. Drinking causes one-fourth of the fatal crashes.

ST. SWITHIN'S Day is July 15. If it rains on that day, so the old stories go, it will rain for 40 days thereafter. That rule may have worked for old England, but not here.

ANY FARMS to rent? Seems to me I hear of more folks than usual hunting farms and not finding any.

AT OUR PLACE, this turned out to be a good year for chiggers, a poor year for raspberries. The last planting of sweet corn lay in the dust for two weeks, but finally sprouted in late June.

—DONALD R. MURPHY

WALLACES' FARMER AND IOWA HOMESTEAD

"GOOD FARMING, CLEAR THINKING, RIGHT LIVING"

(Volume 80—Number 14)

DANTE M. PIERCE, Publisher

RICHARD S. PIERCE, Associate Publisher

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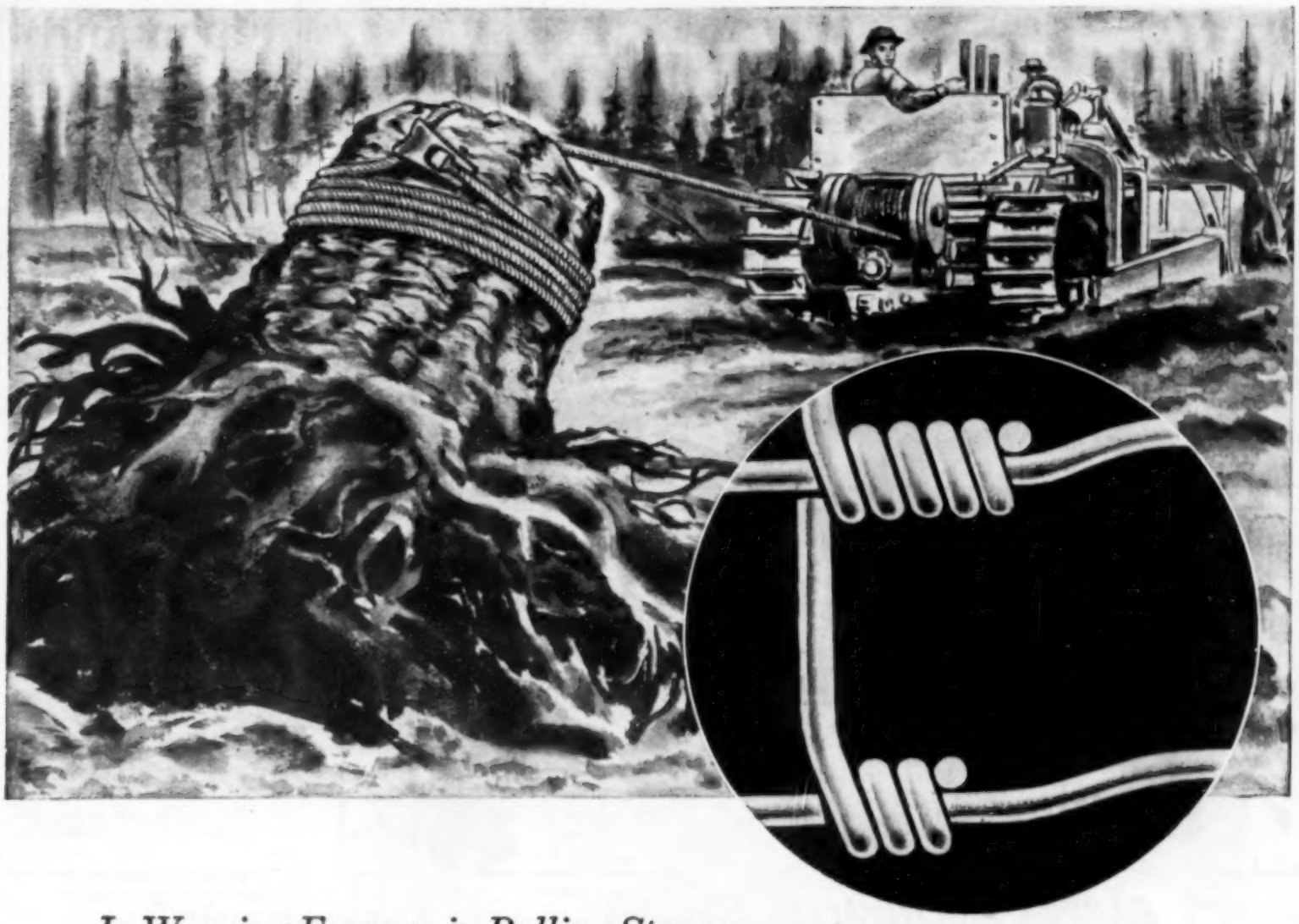

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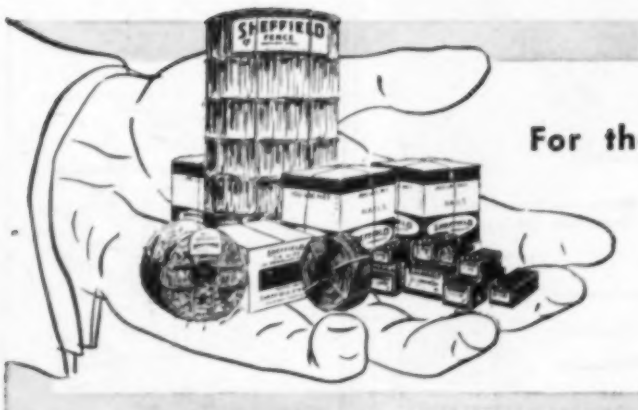

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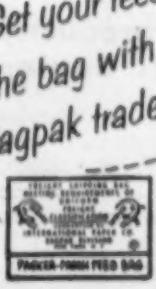

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Farm and Feedlot

New Pig Rations Beat Old Ones

How much better are the pig rations used today than the pig rations of 1930 or 1910? Professor L. E. Hanson of the University of Minnesota has made comparisons of these three rations.

The 1910 ration was corn and minerals; the 1930 ration was corn, tankage and minerals; and the 1953 ration was a modern fortified, mixed ration containing 14 percent protein.

On the 1910 ration, pigs gained 0.64 pounds daily from 52 to 125 pounds weight. On the 1930 ration, gains were about one pound per day. And with the modern ration, pigs gained 1.7 pounds per day.

Thus the tankage added to the corn and mineral ration of 1910 increased gains about 50 percent. And the modern formula ration of 1953 increased rate of gain 260 percent.

Feed for 100 pounds of gain was 525 pounds on the 1910 ration, 364 on the 1930 ration, and 297 on the modern, fortified ration.

So the 1930 ration reduced feed requirements 31 percent compared to the 1910 ration. And the 1953 formula feed reduced feed for 100 pounds of gain by 44 percent.

Other tests showed that as pigs get bigger, 125 pounds and above, the 1910 and 1930 rations do better by comparison with modern rations. But when all points are considered modern rations are much the best at all weights.

Dairymen Make Progress

Butterfat produced per cow was about 140 pounds in 1909. Now production is about 207 pounds per cow.

Increase has been about one percent per year for 46 years.

These estimates, by R. K. Bliss of Iowa State College, indicate that the dairyman's increase in production compares favorably with the corn raisers' increases thru hybrid corn and new cultural methods.

Bliss gives credit to dairy herd improvement associations for the increase in butterfat production per cow.

"Whew! That was close!"

"Delicious steak, dear! Get me the ketchup, pepper, steak sauce, mustard and garlic salt, please."

Let 2,4-D Soak Into Thistles

Spray Canada thistles with ester type 2,4-D after they are at least six inches tall, says O. C. Lee, weed specialist from Purdue University.

The Indiana weed specialist recommends two quarts of 2,4-D in 10 gallons of water. This is to be sprayed on one acre.

Don't disturb thistles for 10 days after spraying, by either disking or plowing, says Lee. Give the plants time to absorb the 2,4-D, and carry it down to the roots.

Iowa Is Packing House State

Top three states in hog slaughter in 1954 were Iowa, Illinois and Minnesota in that order.

Iowa led by a big margin, however, with a total of 10,758,000 killed in commercial plants. Illinois total was 6,321,000. Minnesota total was 5,175,000. In the states of Missouri, Indiana and Ohio, packing plants killed more than 3,000,000 hogs.

Wisconsin led all states in calves slaughtered with Texas and New York following in order.

Illinois maintained its lead in cattle slaughter with a total of 2,151,000 head. Next states in order were Iowa and Nebraska.

Change Grades On Slaughter Hogs

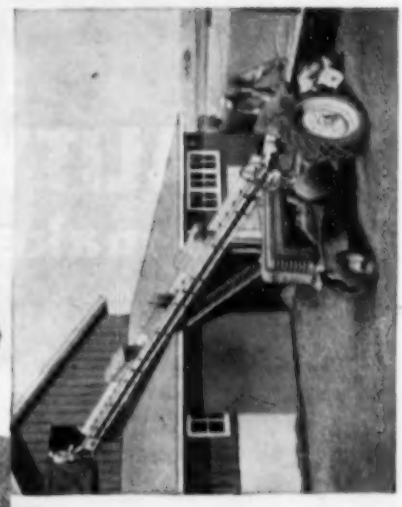
The agriculture department has revised its standards for grades of slaughter hogs and pork carcasses. The revisions are designed to reflect consumer demands for leaner-type cuts.

One of the major changes discontinues use of the word "choice" in the names of the federal grades. Instead, it will use the names of "U. S. No. 1," "U. S. No. 2" and "U. S. No. 3" respectively for the grades previously designated "Choice No. 1," "Choice No. 2," and "Choice No. 3." The names of the other grades—Medium and Cull—remain unchanged.

In addition to the name changes, the minimum back fat thickness is reduced by one-fifth of an inch for each grade except medium, for which the reduction is one-tenth of an inch.

The department had asked various phases of the swine industry to submit views on these changes. It said "general agreement" was given.

Speed Up Farmyard Work



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Spray second brood borers?

Expect peak of second brood moths during the first week of August

YOU CAN expect to see a few second brood corn borer moths next week.

But the bulk of second brood moths won't show up for another couples of weeks—probably during the first week in August.

That's the word from corn borer control experts at Iowa State College.

They say that "a fairly high percentage" of Iowa's corn will be susceptible to second brood borer damage. Late-planted corn is almost certain to be a target for borers—if the second brood develops as expected.

The first brood borer population was big enough to indicate a heavy second brood infestation—if conditions continue to favor the borers.

Research shows that second brood borer damage doesn't cut corn yields as severely as first brood damage. But second brood borers weaken stalks and shanks. Heavy harvest loss due to ear droppage and stalk breakage usually results from a heavy second brood infestation.

DDT, at the rate of one and one-half pounds per acre, is the recommended chemical control for second brood borers. Apply with high clearance ground equipment or by airplane.

When should you spray? Recommendations call for application of DDT as soon as second brood borers start hatching if you find an average of 100 egg masses per 100 plants of corn.

But that recommendation may not be easy to follow this year. Reason? Cool weather in early June stretched the first brood egg laying season.

Normally, the first brood moths lay eggs for about 21 days, explains Dr. Harold Gunderson, extension entomologist at the college. This year, however, the egg laying period lasted for about five weeks—ending about July 1. And that means second brood egg laying period may be stretched out longer than usual.

So you may not be able to find 100 egg masses per 100 plants—even tho you know you have lots of second brood borers. What then?

Research shows that an application of DDT when the first second brood egg masses are hatching will give protection from borers for the rest of the season, Gunderson says. So you may want to play safe by spraying even if you don't have the recommended egg mass count.

Actually, Gunderson says, the second brood borer picture boils down to this. You have three choices:

1. Assume your corn is late enough to be hit by second brood. And spray with DDT after tasseling and silking.

2. Watch your fields. And spray as soon as you find an average of 100 egg masses per 100 plants.

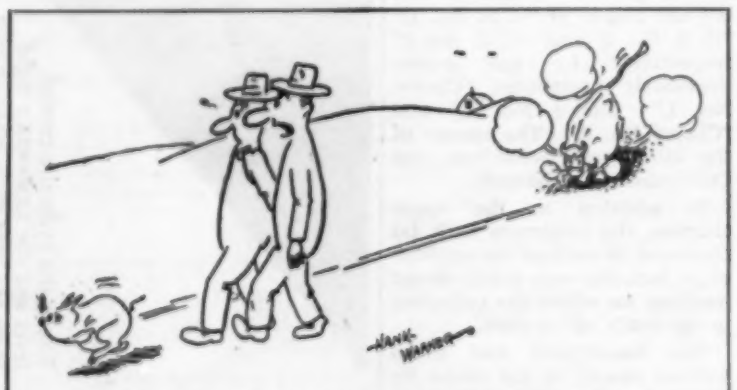
3. Let second brood borers have their way. And if the infestation is heavy, hope that you can get corn harvested without too much field loss. This may be possible if you have drying equipment—so that you can harvest early, before ears start dropping. Or it might be feasible if you can avoid dropped ear loss by turning cattle or hogs into the field after corn harvest.

From the practical farmer's viewpoint, does it pay to spray for second brood borers? Ask Louis Schulke of Sac county, Iowa. He sprayed to control second brood borers last year. And he left an untreated strip in one field.

Later in the season, you could tell the sprayed corn from the unsprayed strip just by driving along the road, Schulke says. Tassels broke off of stalks in the unsprayed strip. More ears dropped. And you could see bare ground from the road, Schulke recalls.

Schulke's sprayed corn outyielded the unsprayed corn at harvest time. Unsprayed corn was light and chaffy. Sprayed corn had higher moisture content, but it was of much higher quality.

If you do spray for second brood borers, here's a suggestion. Leave an untreated check strip. Then you'll be able to prove to yourself whether or not you are doing the right thing.



"By Jove, I think he's trying to tell us something."

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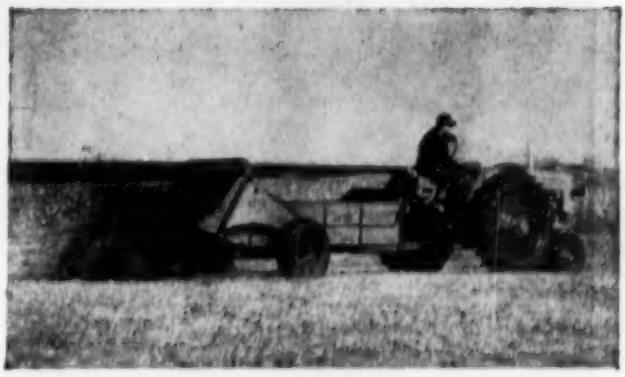

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Harley Erickson has found that a good way to get an accurate estimation of the feed requirements for his hogs—is to call in his MoorMan Man. He has found that though this Man may not hit the figure *exactly* on the head he won't miss far.

For years MoorMan's has been urging their customers to keep accurate records of pork production costs—and have collected literally thousands of these records. These serve as a fairly reliable yardstick to measure the cost of pork production for all types of operations—all methods of feeding—and for all seasons of the year. Access to these records gives the MoorMan customer the advantage of estimating pretty well in advance what their feed costs will be.

"I've fed MoorMan Mintrates to about 125 hogs a year for the past 5 years," says Harley Erickson, Scotland County, Missouri. "And my feed records show that I make more money feeding my own corn and Mintrates than any other method of feeding I've tried.

"I'd recommend MoorMan Mintrates to any hog feeder who wants to cut feed costs to the bone . . . and produce smooth, well finished market hogs in 6 months or less.

"This year I sold my 92 fall pigs at 5½ months of age when they averaged 212 pounds at $17.75 per hundred. Yet, because my total feed cost was only $9.17 per hundred, I had a net profit of $8.58 a hundred . . . or $18.19 return over feed cost for each 212 pound hog.

"When the pigs were 10 days old I started self-feeding on MoorMan's Creep Concentrate meal and shelled corn. Following my MoorMan Man's recommendations, at 7 weeks I gradually switched them to a mixture of 4 parts ground corn and 1 part MoorMan's Mintrate* for Pigs, plus 50 pounds of MoorMan's A-V Supplement per ton. When they weighed about 90 pounds I changed to MoorMan's Mintrate 45 for Hogs and shelled corn. Here's my feed record . . .

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MoorMan's Pig Mintrate 2,000 lbs.	176.00
MoorMan's Hog 45 3,000 lbs.	274.50
MoorMan's A-V Supplement 250 lbs.	31.50
Corn—900 bu. @ $1.35	1,215.00
Total Feed Cost	$1,789.00

"These pigs weighed a total of 19,504 pounds when I sold them. With my total feed cost $1,789.00, including corn, and my total selling price $3,461.96, I had a net profit over feed cost of $1,672.96. I consider that a mighty satisfactory return when you consider the market."

MoorMan Mintrates reduce feeding costs and increase profits because they are a highly concentrated mixture of proteins, vitamins and minerals that help livestock extract additional growth-power from home-grown grains.

Thousands of hog feeders will tell you that, like Mr. Erickson, they are making pork for less out-of-pocket cash and less total feed cost than any feeding method they've ever tried. With Mintrate, and their own corn, they get pigs to market faster. For greater pork profits this year see *your* MoorMan Man. Or, if a MoorMan Man doesn't call, write Moorman Mfg. Co., Dept. S57, Quincy, Illinois.

"The MoorMan Man is always welcome"

—SAYS MR. ERICKSON

"OUR MoorMan Man is always welcome at our farm, and I find his suggestions mighty helpful. He seems to know what his fine line of products will do for me and I'm always surprised how close he can come to figuring out what my feed costs are going to be. He's certainly a valuable man in our community."

MoorMan's*

Since 1885—70 Years of Friendly Service

MINTRATE 45 FOR HOGS

—one of 10 mineralized protein and vitamin concentrates that help livestock and poultry make better use of home-grown feeds.

*Trademark Reg. U.S. Pat. Off.

Used "rag dolls" to test seed corn

New methods doubled corn acres per man—increased bushels four times

Corn was "plowed" with this contraption 100 years ago. With the double shovel, you made a round between each two rows. The late Fred Brown of Winneshiek county, Iowa, is shown with the old corn raising tool.

DO YOU remember when a "rag doll" was an important item in a corn raiser's equipment? Or when farmers "plowed corn" with a "shin buster"?

Those things represented progress in corn raising at one time. They made it possible for one man to raise 40 acres of 40-bushel corn.

But the present day corn raiser has other new things, and he can put out 100 acres of 60-bushel corn.

You may remember, as I do, many of the steps by which corn growers have made such progress. Let's recall a few:

1855 100 1955
YEARS of SERVICE
To Farm Families
Centennial Issue
August 20, 1955

The seed corn revolution is the first big change that comes to mind. Maybe you remember Grandpa with his "specs" on, picking seed corn from a half emptied crib.

"I don't need any book farmer to tell me if corn will grow . . . I can tell by the looks of the 'sprout,."

That was Grandpa's boast as he'd pick a kernel from another nice-looking ear and bite off the tip to squint at the germ.

But the "rag dolls" took grandpa's job away from him. And with them came a whole new seed corn method.

After a big educational program, good farmers began to pick seed corn out of the fields in the fall. Then it was hung over barn or crib driveways to dry.

Before planting time, two kernels

By **Homer Hush**

were pried from each ear. Then the farmer started to roll up a long wet, folded rag. Kernels to be tested were placed on numbered squares corresponding to numbered ears on a rack.

In a week, the "doll" gave its verdict. If the corn grew 85 percent or better it was seed. Otherwise, just hog feed.

But now the hybrid corn company picks the seed, dries it, tests it and applies chemicals. The old "dolls" served their day, but now exist only in the memory of older farmers.

* * *

How did they plant corn in the old days? Lots of it was planted with a hoe 100 years ago. Fields were marked both ways with a home-made plank marker. Hills were planted where marks crossed.

Then horse-drawn, hand-operated planters appeared. Fields were marked one way. One man drove the team and his wife or another man dropped the hills at the mark to get the check.

First wire check-rowers I remember were the "U.S." and what farmers called the "old Brown planter". They checked with wire much like planters of today.

In the early days, "plowing corn" meant stirring the soil deep. This was thought to benefit the corn as well as to kill weeds.

The "double shovel" cultivator was the most used type when the prairies were first broken. It took half a row and one horse pulled it.

Going one way dirt was piled against one row. Coming back the other row was "hilled up" as they liked it then. The "double shovel" served its day and was replaced by one-row outfits.

* * *

My first experience "plowing corn" was with an old "New Departure" tongueless cultivator.

It had no frame, and of course, no seat. As there was no evener for the two horses, each gang went ahead or behind according to whether the horse on that side was fast or slow.

Like others, I bumped my shins on beams many times when one horse slowed up to kick at flies.

That's where the New Departure got the name "shin buster." But it would be called a man-killer today.

The old tongueless cultivator was full of joints and wouldn't stand up unless shovels were buried in the ground. Let loose of the handles and it would fall in a pile.

Older farmers liked the "New Departure". They said it was "easy on the horses." And they bragged that they could plow 10 acres a day if it was cool for the horses. That meant hanging onto those handles for over 22 miles.

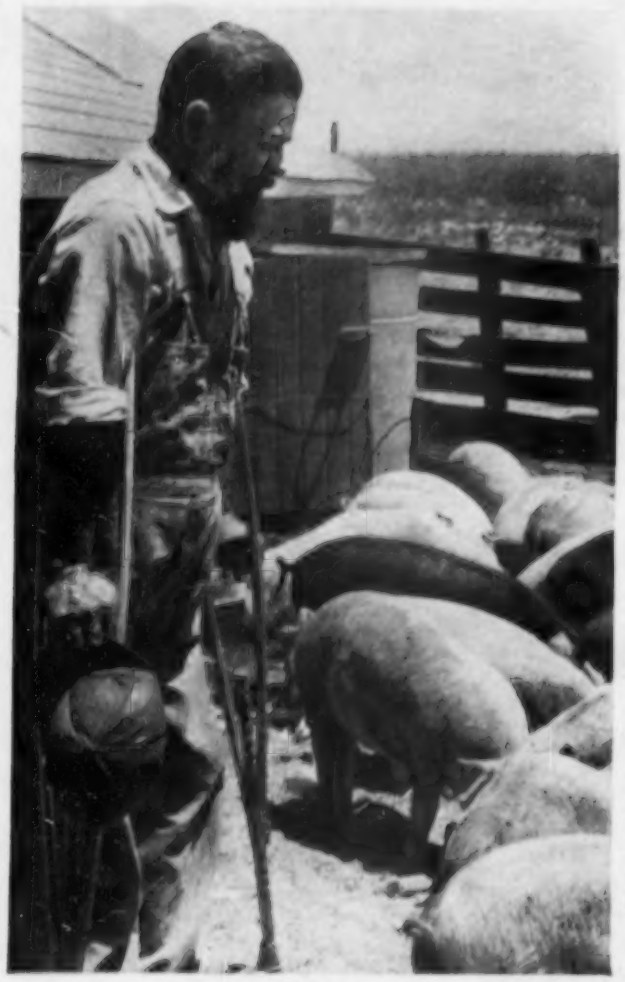
The first riding cultivators made older men shake their heads. "Lazy man's tool" they said. "How are these 'sittin' down' farmers going to uncover corn the shovels cover?" Walking plow operators became expert at uncovering corn with one foot without stopping the team.

But riding cultivators stayed and two-row horse-drawn models followed. Now many farmers cultivate four rows at a time with tractor power.

New planting and tillage methods were followed by better hybrid varieties and the use of fertilizer.

But the old methods were necessary steps to today's accomplishments just as present methods are steps to still better corn growing methods.

"Lazy farmer's tool" was the name given riding cultivators by older farmers. They said these "sittin' down" farmers couldn't possibly do a good job.



Editorials...

Time for Whiskers

Wherever you see a beard, it's a sign of a centennial. Centennials are bursting out all over this year.

Max Webb of Ringgold county, Iowa, developed his beard—it's a very good one—for the Mt. Ayr centennial. His spring pigs, aimed at a September market, don't seem to mind the beard just so the rations keep coming.

With the Centennial Issue of Wallaces' Farmer and Iowa Homestead coming August 20, you'd think the publishers and editors would be sporting beards. We aren't. Our excuse is that beards didn't come to be fashionable until the Civil War. Lincoln was clean-shaven in 1855. And we're celebrating 1855, not 1862.

However, we agree that beards brighten up the landscape and give variety to masculine mugs. If we thought we could grow as fine a General Grant type beard as Max Webb, we might try it.

Those Fall Pigs

WILL FALL PIGS make money this year? Farmers said about June 1 that they intended to keep 11 percent more sows for fall pigs than last year.

You can expect feed to be some cheaper if crops are good. But hogs could easily go down more than feed. The prospective fall pig crop is 18 percent larger than the 10-year average.

Chances are that the only sows that will make you money this fall are the top-notch ones. Any kind of sow but the best will probably make you the most money if you sell her for meat. That's especially true for sows that can go to market without docks.

Bachelor Shortage

GRANDMA SAYS that in her day girls didn't run after boys the way they do now. Or at least they didn't make it so obvious.

Grandma may be right, but if she is, it is just another example of supply and demand.

In 1930, for instance, there were one million more men than women in the United States. In 1960 there will be two million more women than men.

Decrease the supply of hogs, and the price goes up. Decrease the supply of potential husbands, and courting habits change.

Yet those 1960 estimates look more discouraging than they really are. Even in 1960, there will be as many men as women in the 20-29 age group. It is in the older groups that the percentage of men decreases.

And out in the farming districts, the trend is the other way. In farm districts of Iowa, there are 123 farm men 20-24 years of age to 100 women of the same age.

That means young farm men have to go farther to find girls, or that girls have to go farther to find young farm men. In cities, "courting range" is short. In Duluth, for instance, 42 percent of the couples lived, before marriage, within 20 blocks.

We have no figures for the "courting range" of Corn Belt farmers, but would guess that somebody—either the boy or girl—has to travel a lot farther, maybe 50 or 60 miles, in order to find a mate. Somehow they manage.

Your pay check

It will shrink unless there's U. S. support for livestock prices

HOW much of the money you take in every year comes from the sale of livestock and livestock products? One-half, two-thirds or practically all?

If four-fifths of your income comes from sale of livestock and its products, you are like most folks in Iowa. Hogs, of course, are the biggest item. They make up 37 percent of the market receipts in this state. Other Corn Belt states depend on livestock to almost the same extent.

With farm income so dependent on livestock, you would think folks would pay more attention to hogs, eggs and beef cattle when they talk about supports for farm income. Yet only dairy products—seven percent of the total in Iowa—get any support at all.

IN THE old days, the corn program helped livestock prices. Production of corn was cut; supplies were held off the market, and this stiffening of feed prices had an influence in controlling production and thereby helping prices.

Now corn acreage is being reduced only a little by the present program. Cotton is being turned into feed crops. There is a good chance that a lot of wheat will be used for feed. Altogether, we have the prospect of a tremendous surplus of feed grains being turned into a surplus of livestock.

TO PROTECT their income, it is time that farmers were getting direct supports for livestock and livestock products. This doesn't mean that we want to repeat the old blunders of buying and storing the surplus. The livestock surplus should not be stored; it should be eaten. How?

1. **Expand the school lunch program. Revive the food stamp program. See that impoverished old people, children in broken homes and folks out of jobs get something to eat.**
2. **Support livestock products at around 75-80 percent of parity. Let the price drop to whatever the market will pay. But see that the farmer gets the difference between the support price and the market price.**

This is the real farm issue for the Corn Belt. Arguing whether wheat should be supported at 76 percent or 82.5 percent or 90 percent is relatively unimportant, compared to what we do for livestock.

Speed That Kills

IOWA ORDERED a one day emergency speed limit of 60 miles an hour after the slaughter on July 4. But what is needed is a year round 60 mile speed limit and a big enough patrol to enforce the rules.

This is what farmers asked the Iowa legislature to do.

For Cheap Feed

BY THEIR VOTE on wheat quotas, farmers defeated an attempt to lower wheat prices to corn levels and thereby to turn the wheat surplus into a livestock surplus.

But the danger isn't over. Secretary Benson expects to use "discounts in price supports for certain designated varieties of wheat, especially those suitable for feed purposes." He'll ask congress to exempt farmers "from marketing quota penalties if all the wheat produced on their farms is used for feed or seed on farms where produced."

Both moves are aimed to push part of the wheat surplus into feed use. The result, of course, would be to increase livestock production and lower livestock prices.

What should livestock men do? Insist that their congressmen fight every move to use surplus wheat for feed unless help is given to livestock prices at the same time.

Benson's proposals to use wheat for feed without compensating aid to livestock should be turned down cold.

As soon as Pop gets the power mower fixed, the boys will be back at the job. No hurry, Pop. But LeRoy Gieseje of Butler county, Iowa, will have the machine going in a minute. And we used to mow yards with a scythe!

Odds and Ends . . .

HOW MUCH rain, how much heat in the next 30 days? If corn growers knew this, they'd also know whether to build a new crib.

. . . RUSSIAN SHORTAGES of food and U. S. surpluses of food give our representatives extra strength in bargaining at the Geneva conference.

. . . MORE MILK would be sold in cities if every cafeteria featured pint bottles and if every store gave a discount on two-quart and four-quart bottles.

. . . ON MOST FARMS, the corn crop successfully got thru its most critical stage. But reserves of soil moisture are low in places. Some corn is just getting by from week to week on occasional showers. Happy is the farmer who got a sod-soaker in early July.

. . . FARMERS are biting at worthless stocks again. For one thing, be sure any stocks you buy are registered by the state. This doesn't mean they'll make you money; but it should indicate that they aren't completely worthless.

. . . SAFEST INVESTMENT for most farmers is still the U. S. Savings Bond. Put your surplus cash there.

. . . HOW MUCH have supports on grain been cut for 1955 crops? For wheat, from $2.24 to $2.08; for oats, from 75 cents to 61 cents; for grain sorghums, from $2.28 to $1.78; for flaxseed from $3.14 to $2.91; for soybeans, from $2.22 to $2.04.

. . . IF YOU'RE operating on a father-son partnership basis, be sure the deal includes two houses—if the son is married. Otherwise, the partnership won't last long.

. . . THE ADMINISTRATION'S 90 cent an hour minimum wage wouldn't make much difference in the middle west. Only 2.3 percent of workers would be affected. But it would boost pay of 20.2 percent of industrial workers in the south.

. . . VISITORS from Germany say that German youth don't want to serve in the new army that is being urged upon them. They think Germany has had enough of big armies.

Song of the Lazy Farmer

THIS time of year I wish I might make time completely stop its flight so I could lay right here like this and keep forever summer's bliss. The warm sun pouring down, by gee, has made my rheumatism flee; the smell of soil and growing things, that little meadow lark who sings as if he must be heard a mile, the chipmunks that sit up and smile as if to say that they don't see a thing that's dangerous in me, those fleecy clouds up in the air, a tractor's grunting off somewhere. They all combine to make me yearn for someplace where no season's turn e'er spoils the day I like the best, the ones designed for outdoor rest.

I wonder if Mirandy'd stand for selling off our goods and land and trying Florida awhile, or maybe some Pacific isle where summer lasts the whole year thru and we'd have not a thing to do 'cept sprawl beneath a big palm tree or splash around in tropic sea. But I suppose she'd raise a fuss and claim 'twould be motononous to never have a flake of snow or see a maple's autumn glow; and come to think of it, I guess my spirits also would depress if I could not curl up and snore besides the fire when blizzards roar.

This meat type barrow would look good in any feedlot. He was named grand champion at the Iowa State Spring Market Hog Show last March.

Here's how to

Raise meat type hogs

by **Al Bull**

NO NEED to keep producing those short, chuffy, overfat hogs. Switching to meat type is neither difficult nor costly.

Important point is this: Fat hogs have no corner on fast growth or efficient gains. Meat type hogs can do as well—sometimes better.

So here's how to get into meat type hogs the practical way:

"Start with the sows you have," advises L. E. Hanson, swine specialist at University of Minnesota.

"Then use meat type boars from three different breeds in a regular rotation. Doesn't matter which breeds as long as boars are good meat type," he adds.

"Just fix clearly in your mind what meat type is. And be sure you know where to get meat type boars in each breed you choose," Hanson warns.

W. L. Robison of Ohio State University urges much the same approach.

"For cross breeding, a three breed rotation cross has definite advantages over a two breed cross," he points out. "You bring only boars into your herd. That cuts down chance of bringing in disease."

"Any cross breeding program owes its merit to the pure breeding or inbreeding ahead of it. So don't hesitate to pay a good price for a tested sire. Or for one that seems certain to do the job you want," urges Robison.

Of course, hybrid boars can be used to introduce meat type. The rotation principle remains much the same.

"Pure breeding can produce meat type hogs, too," says Robison. But enough meat type lines within a pure breed may be harder to find.

You may be looking for more than meat type when you buy a boar.

Goal for the herd is (1) fast gain, (2) big litters, and (3) meat type.

"So take a long, critical look at your sows before you buy a boar," advises E. L. Quaife, Iowa State College swine specialist. "Decide what your sows already have. Then bring in a boar—or rotation of boars—to add the points you need."

Just buying the right kind of boars won't give meat type hogs right away. But it puts you on the right track.

Selecting gilts to keep for breeding stock is mighty important, too.

Fast gain usually indicates efficient use of feed. And extra pigs per litter give you a better chance of making money.

So keep picking gilts that come nearest to your meat type ideal from the big, fast-gaining litters.

You can get one check on meat type by probing back fat of live hogs. One-tenth of an inch more back fat means about one percent less lean meat cuts.

Now, what other pointers can you look for to help spot meat type?

L. N. Hazel, swine specialist at Iowa State College, lists these: (1) Good but not extreme body length. (2) Only moderate depth of body. (3) Sloping, not flat, back. (4) Trim middle and jowl. (5) Firm ham.

Boar pigs are generally a little longer and slimmer than littermate barrows at the same weight.

So a boar that may be an ideal barrow type can be expected to produce barrows shorter and fatter than he is.

This crossing and selection system for getting into meat type hogs is farm tested. You won't have to go far to find someone who has used it successfully.

For example, M. A. Anderson of Franklin county, Iowa, says, "I started with Poland China sows that were too fat. I crossed them with a Yorkshire boar. And kept the best gilts from the cross. Then I kept picking boars that I thought would fit the herd. Now, my pigs are meat type."

"You don't get all the way with one cross. Takes some keeping at it. But crossing and selection do the job. And you get into meat type without a high cost," points out Anderson.

Some of these long, lean, purebred pigs will find their way into herds that are moving toward meat type. They are shown on the Martin Clark farm in Hancock county, Iowa.

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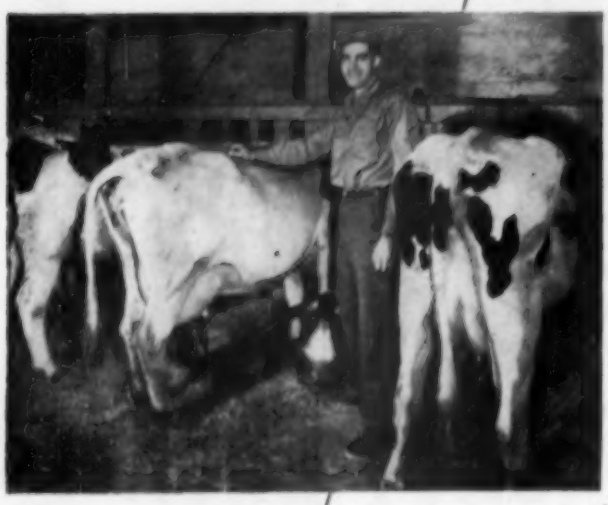

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Control for submersible pump on the Arnold Kraft farm, Scott county, Iowa, is pictured. Pump and motor are 90 feet below earth surface in the 140-foot well. Concrete cover was to be installed soon after picture was made.

Which water pump?

It's the heart of your water system. So choose carefully

What type of pump for your farm water system? What size? Here's advice from Kenneth L. McFate, agricultural engineer at Iowa State College.

YOUR farm water system pump should last 15 to 20 years if properly selected, installed and maintained. So consider future as well as present uses in determining the type and size of pump to install.

Basically, there are two types of farm pumps—shallow well and deep well. In Iowa, you'll need a deep well pump to lift water more than 23 feet.

You have a choice of three kinds of shallow well pumps—centrifugal, centrifugal jet or ejector and reciprocating (piston type). All can be mounted over the well. Or all of them can be offset from the well, provided the total lift plus horizontal pipe friction loss is no greater than the equivalent of a 23-foot lift.

The centrifugal and centrifugal jet pumps are quiet. And they deliver a steady flow of water. However, if your well is weak, the piston pump might be most desirable. It has the advantage of constant volume and positive action regardless of water level—down to 23 feet.

Three kinds of deep well pumps are most commonly used. They are the working head (piston or plunger type), the centrifugal jet and the submersible pump.

Single stage jet systems are most efficient when lifting sand-free water from a depth of 90 feet or less. But multistage jets can be used at depths of up to 300 feet. Remember, tho, that the overall efficiency of a jet pump decreases as depth of jet assembly setting increases.

Jet pumps have a maximum pressure against which they can operate satisfactorily. So where high elevations are involved, it may be best to use a submersible or a deep well working head.

The working head pump isn't so easy to install. But it has the advantage of a constant volume of water. It can be used to almost any depth desired in a farm well. If you have a weak well in which the water level drops fast, it's usually best to use this type of pump.

The submersible pump is completely submerged under water—both the motor and the pump. Motor controls are located above ground near the well. This pump can be installed in a well four inches or more in diameter. It can be used in wells up to 400 feet deep—or more.

Because the submersible pump actually pushes the water out of the well, it is a very efficient unit. It can develop high discharge pressure. And it's easy to install. But it should not be used in sandy wells.

Both jet pumps and submersible pumps are relatively quiet, give an even, constant flow of water and, in general, require little maintenance. Piston pumps can be belted to a tractor easily—an advantage in case of electricity failure.

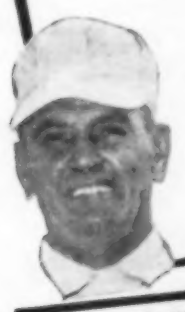
All positive acting pumps require an automatic relief valve near the pressure tank to avoid danger of too much pressure.

Suppose you have a rather weak well. Water level is above 23 feet now; but it may be lower in some years. Then you may want to consider a convertible jet pump—one that can be used in either a shallow well or deep well installation. For shallow well installation, the jet assembly is installed inside the pump. For lifting water more than 23 feet, the jet assembly is located down in the well.

What about pump capacity? It's usually best to get a pump big enough to deliver the daily water requirement within two hours. Some wells, however, may not provide water that fast. In that case, a smaller pump would do just as well.

Keep in mind, however, that you should have a minimum pump capacity of 500 gallons per hour for adequate fire protection—if that pump and well are your only source of water.

SOYBEAN GROWERS HAVE NOTHING BUT PRAISE FOR THE *NEW* JOHN DEERE *45* COMBINE



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"When I delivered my beans to the elevator, the elevator man told me they were the cleanest and best-threshed beans of the year. They were harvested with my John Deere 45 Combine."

A. D. Whitcomb
Burnside, Illinois

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"In past years, I've been completely bogged down with a pull-type PTO combine and tractor in muddy soybean conditions. This year, I walked right through with no trouble, thanks to the excellent weight distribution of my 45.

"It certainly surpassed all my expectations."

David Englehart
Earlville, Illinois

"THE MORE I USE IT THE MORE I LIKE IT"

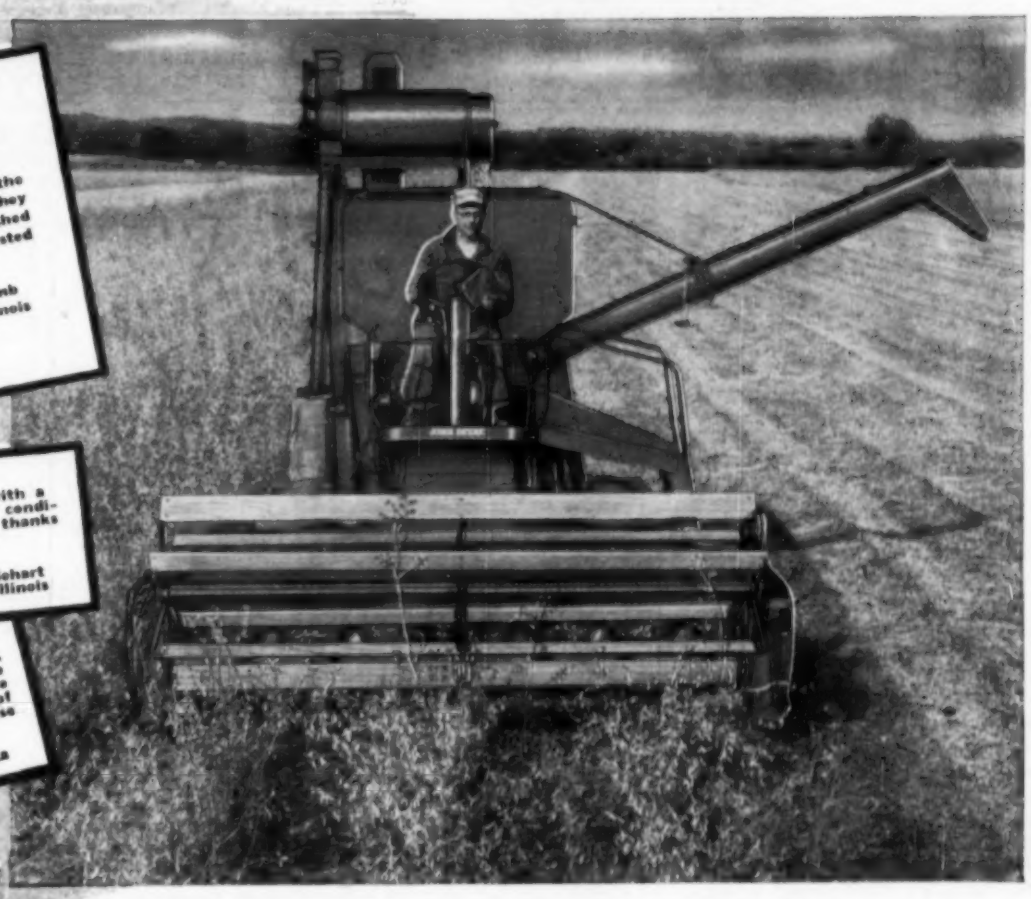
"This fall, I combined 250 acres of soybeans with the 45. I will have to say the more I use it, the more I like it. The easy handling and performance of this new 45 and the many other features, such as simple adjustments, lots of sealed bearings, hydraulic control, and very few daily grease places make it outstanding."

Tryge Eastvold
Hartland, Minnesota

"MORE THAN ENOUGH CAPACITY FOR HEAVY BEANS"

"I combined over 220 acres of oats and 180 acres of soybeans with my 45. These were heavy crops, but the 45 had more than ample capacity to handle them. The steel walker type straw rack is one reason I purchased the machine, and it certainly proved its great separating ability."

Lester Freund
Walcott, Iowa



Above is the new John Deere 45 Eight- or Ten-Foot Self-Propelled equipped with Hart ScourKleen. Notice how the operator sits up high out of dirt and away from engine heat.

From every soybean-growing section of the country come glowing reports from owners of the new John Deere 45 Eight- or Ten-Foot Self-Propelled. These reports tell of the amazing capacity of the 45 which enabled it to combine in heavy, weedy crops that would have stopped an ordinary combine. They tell how easy the 45 is to handle in soft or loose soil. They tell of getting more and cleaner beans per acre. And, they tell of the dependable, low-cost work of this outstanding combine.

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This is the big 12- or 14-foot No. 55 with straw chopper. Straw chopper is extra equipment and is also available for the 45 Combine.

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Behind The News

Draft is a lottery

More men available than armed services will need or can take

IF YOUR BOY is 19 or more, he's probably trying to figure what to do about the draft. The new administration bill only makes things more complicated.

Your 19 year old can:

1. Sign up for draft in advance, take two years, followed by three years in the active reserve (one drill a week) and one year in the inactive reserve.
2. He can try for the new 250,000 unit, serve six months and then 7½ more years in the active reserve.
3. He can enlist for three or four years in the regular services and then have a shorter time in the active reserve.
4. He can do none of these, but sit back, and take his chance that he'll escape any kind of service.

His chances to escape any kind of service are getting better. Walter Millis, military expert writing in the New York Times says: "By 1959, we shall have something like 1,790,000 young men waiting their turn in active forces which will then be absorbing only 490,000 men a year. It will present an impossible situation."

But the young man who waits takes the risk that at some time, after he is married and farming for himself, the draft may pick him up.

The armed forces are needing fewer men right along. More civilians are being hired. More regulars are re-enlisting. But some draftees are still required.

How do you keep the draft from being a lottery? In effect the boy who draws the black bean serves. That isn't fair or democratic, but it's the way things are now.

* * *

Will Secretary Benson lower supports on feed wheat and raise supports on better grades of wheat used for flour?

Probably. Benson would like to get a lot of wheat used up as feed. But to meet the requirements of the law, the average support must be at $1.81 a bushel or 76 percent of parity.

So if Benson cut soft wheat to 65 percent of parity he'd have to raise good milling wheat to 80 percent or better in order to keep the 76 percent average for everything.

* * *

What do USDA officials think about the big increase in hog production?

Some are worried. Some aren't. Among those who aren't worried was the man who was asked: "What will we do with all the hogs?" and replied calmly, "Eat them."

What about price? Some officials expect the low point to come in November at about $15 at Chicago.

These folks said a price of $15 wouldn't be bad in relation to probable prices of corn and other feed. If corn averaged $1.25 a bushel, $15 hogs would mean a ratio of 12 to one, which is only a little below the long-time average.

The guessing at USDA is that farmers will rush pigs to market at light weights, so that production of lard may not increase as much as expected.

* * *

Are we going back to the old PMA committee system, with farmer committees again in charge at the county level?

Not yet. Senator Humphrey of Minnesota has a bill in along this line, and some hearings have been held.

This bill, among other things, would provide that members of county or community committees could not be limited to one term. The committee would take back some of the powers now given to the office manager.

There has been some discussion also of limiting the power of the secretary of agriculture to appoint state committeemen. One recommendation is that a state committeeman could only be named from among those with service in county or community committees.

This amendment would force state committeemen to come up thru the ranks.

In some states, committeemen have been named who were without any experience in the program.

I Lowered My Feed Cost Switching to HOG CONCENTRATE

WILLARD E. SWATERS of DENISON, IOWA, *feeds his hogs* MURPHY'S. *Here's what he says:*
"We farrowed 152 pigs and marketed 151 hogs 5 months and 17 days later, weighing an average of 203 lbs. at Sioux City market. These hogs were fed from birth to market on MURPHY'S hog feeding program. The average feeding cost per head was about *$9.25* per 100 lbs. of gain, including all farm grains, concentrate and minerals. This year we have 123 head of hogs that are on the way to an even better record."

ELDON and J. C. VERCANDE of NORTH ENGLISH, IOWA, *have this to say about* MURPHY'S *hog feeding program:*
"Our spring pigs were farrowed between February 6 and March 12, 1954. We weaned 104 head. We used 2350 lbs. of MURPHY'S PIG STARTER for a cost of $211.50; 125 lbs. of MURPHY'S PIG SPURON, cost $33.75; 5100 lbs. of MURPHY'S CUT-COST HOG CONCENTRATE, cost $377.40, and 874 bushels of our own corn, cost $1311. The total cost was $1933.65. Gain cost us $9.30 per 100 lbs. of pork."

HARRY PETERSON of SCRANTON, IOWA, *feeds* MURPHY'S *to his hogs on his farm. He says:*
"I got the best gains on my bunch of pigs I ever got and with less feed! I sold the first pigs at 5 months weighing 220 lbs. I really like MURPHY'S HOG CONCENTRATE to help me raise the kind of hogs that get to market fast for a low outlay for feed."

GLENN SLINGER of CHARLES CITY, IOWA, *who is a* MURPHY HOG CONCENTRATE *feeder, says:*
"I changed to MURPHY'S after feeding another feed for 3 years. I changed feed to lower my feed costs and I saved over $200 on feeding 100 pigs the MURPHY way." 1

MURPHY PRODUCTS CO.
BURLINGTON, WISCONSIN

I Lowered My Feed Cost Switching to BEEF CONCENTRATE

CLARKE McDONALD of GLIDDEN, IOWA, *has this to say about* MURPHY'S BEEF CONCENTRATE:
"I fed 40 steers that weighed 836 lbs. when bought and weighed 1268 lbs. when sold. The steers went in drylot and were self-fed a ration of ground ear corn, CUT-COST, MURPHY'S MINERALS and hay. Consumption of CUT-COST averaged ¾ lb. per head per day. These steers went to market in 132 days on May 10. *Their average daily gain was 3.3 lbs.*"

You can safely feed MURPHY'S CUT-COST BEEF CONCENTRATE *free choice. So to save labor and lower your feed costs—Switch to* MURPHY'S.

NORVILLE McCLEARY of LIBERTYVILLE, IOWA, *has this to say about* MURPHY'S *beef program:*
"My MURPHY-fed cattle put on about 3 lbs. gain per head per day on a ration made from 19 lbs. of corn, ¾ lb. of CUT-COST, and a little silage and straw. I've tried other feeds including the latest in "growth additives" but I've always done better on MURPHY'S. I can self-feed MURPHY'S with no worries and no scours. My cattle are staying on feed with good, rugged health and top feed efficiency."

MURPHY-*fed cattle go on feed easily—stay on feed better.*

JOSEPH A. KARME of CARROLL, IOWA, *feeds* MURPHY'S BEEF CONCENTRATE *on his farm. He has this to say:*
"I feed about ¾ lb. of MURPHY'S BEEF CONCENTRATE per head per day along with ground corn and roughage. The last group of cattle I fed out on a MURPHY feeding program gained an average of 3.2 lbs. per head per day for 128 days. These MURPHY-fed cattle were sleek coated—shipped well—and sold well at the market." 2

MURPHY PRODUCTS CO.
BURLINGTON, WISCONSIN

Service bureau

Widows Qualify For S. S.

To the Editor: Do widows who can't operate their own farms get any social security? — M. J., Winnebago county, Iowa.

You must have a net income of $400 or more from self-employment or work for cash wages to be eligible for social security benefits.

These requirements don't prevent widows from qualifying for social security. You can operate your farm by hiring the work done. The net income from such an operation would qualify you for social security benefits. But the net income would have to be $400 or more per year. No social security tax is paid if your net income is less than $400 or on net farm income over $4,200.

Income from a rented farm is investment income and would not qualify you for social security benefits.

Wants To Camp At State Fair

To the Editor: We would like to spend several days at the Iowa State Fair. Will camping facilities be available? How much does camping cost? Will tents be furnished?—J. C., Lyon county, Iowa.

A camping ground is available at the Iowa State Fair. You may bring your own camping equipment or the awning companies will have tents and cots for rent. Usually no charges are made for the camping sites.

High Pressure Salesmen

To the Editor: A month ago three insurance salesmen called on me to sell a guaranteed savings plan policy. They talked for three hours. Finally I told them I would think their policy over. They told me that if I would sign a note for the amount of the premium, they would start the investigation, etc., necessary for the policy. They said they would be back in three weeks to see if I wanted to buy the policy.

They came back in two weeks with the policy. When I told them, I had decided not to take the policy, they informed me that I had to take it and had already bought and paid for it.

I did sign the note assuming that I would get it back if I didn't take the policy.

Two of the men came back a few days later, and I told them I wouldn't accept the policy under any circumstances.

I haven't signed anything but the note, which seems to be enough. Also the policy is nothing but a ten-year term policy.

Should I report this to the insurance commission? Should I take any legal action?—J. B., Emmet county, Iowa.

The Service Bureau attorney says you could report this incident to the insurance commissioner if the facts are as set out in your letter.

You should contact a local attorney to see if he thinks it's advisable to bring an action to recover and cancel the note before it gets into the hands of other parties.

(Editor's note: Most insurance salesmen are honest and are really interested in selling only the type insurance that fits your needs. But a few salesmen like these make it hard for the good ones to render real service to farm people.

It's always advisable to read contracts before you sign. Don't rush into signing any contract because the salesman is in a hurry. Don't fall for bargain offers. Mostly they aren't bargains.

Remember a company isn't responsible for statements made by salesman, unless they are printed in the contract. (See page 57, this issue.)

"But Pappy, I always was led to understand that some day you'd retire and I'd take over."

I Lowered My Feed Cost Switching to DAIRY CONCENTRATE

HAROLD E. NOE of LIME SPRINGS, IOWA, *has this to say about* MURPHY'S DAIRY CONCENTRATE:

"I began feeding MURPHY'S CUT-COST DAIRY CONCENTRATE to my holsteins two years ago and as a result, increased the herd net for the year by nearly $1,000 over the year before. This spring when I turned the cows out on pasture, I fed one pound of MURPHY'S CUT-COST per head per day. My cows are holding up in production and are keeping their flesh better than they did before I switched to MURPHY'S CUT-COST DAIRY CONCENTRATE."

ART WEAVER of CEDAR FALLS, IOWA, *says:*

"In feeding MURPHY'S DAIRY CUT-COST we have found that our nine cows have gained five gallons of milk per day with a three point gain in test right in the hottest weather, which we think is very good. We feed two cups full of CUT-COST per cow per day."

That's 20 ounces, and it costs less than 10¢ per cow per day to feed MURPHY'S.

L. A. LANCASTER of LUCAS, IOWA, *feeds* MURPHY'S DAIRY CONCENTRATE *to his herd. He says:*

"I switched my dairy herd to MURPHY'S DAIRY CONCENTRATE to lower my feed cost. I ground the grain and fed 1¼ lbs. of MURPHY'S per cow per day on top of the grain. My pasture was short due to the drought, but my cows milked better and over a longer period of time than on any other feeding program I ever tried. I recommend the MURPHY way as a way to lower feed cost, increase production and better health."

For lower feed costs, increased production and better health—switch to MURPHY'S CUT-COST DAIRY CONCENTRATE. 3

MURPHY PRODUCTS CO.
BURLINGTON, WISCONSIN

I Lowered My Feed Cost Switching to POULTRY CONCENTRATE

LAYTON WALTERS of COLESBURG, IOWA, *has a flock of 398* MURPHY-*fed Leghorns. He says:*

"We are very proud of these pullets. They started to lay when they were only 5 months old. And today we're getting 313 to 325 eggs from the flock per day and they are now 7 months old. Our birds were started on MURPHY'S READY-TO-FEED VIG-O-RAY STARTER and then continued on MURPHY'S VIG-O-RAY CONCENTRATE and our own grains and roughage. We like the MURPHY feeding program for two reasons: one—our production stays high: two—our feed costs stay low."

GUS NATH of PERRY, IOWA, *has this to say about* MURPHY'S *poultry feeding program. He says:*

"This year I housed 598 of the most beautiful and best developed pullets that I have ever raised. They were started on MURPHY'S READY-TO-FEED CHICK STARTER. At 4 weeks they were changed over to cafeteria feeding of whole oats, cracked corn and MURPHY'S VIG-O-RAY CONCENTRATE. They came into production very fast and my cash outlay for feed has been the lowest in all the time I've raised poultry. I spent $95 for chick starter and $131 for MURPHY'S VIG-O-RAY CONCENTRATE. That's a total of less than 35¢ per pullet for boughten feed from incubator to housing."

Mr. and Mrs. LEONARD WULFEKUKLE of GREELEY, IOWA, *are* MURPHY VIG-O-RAY *feeders. They say:*

"This year we bought 300 pullets. 5 months later we were getting eggs. At 5½ months, our birds are up to 80% production. Past experience has shown us they will stay there. So we're well satisfied with our low cost and high production from feeding MURPHY'S VIG-O-RAY CONCENTRATE for poultry." 4

MURPHY PRODUCTS CO.
BURLINGTON, WISCONSIN

Less Feed Mankato, Minnesota: In Hubbard Milling Company tests at their Sunshine Research Farm, adding Arsanilic Acid produced feed savings of 10% in pigs up to 12 weeks of age . . . 6% during the 12-18 week period. Hogs reached market weight sooner—saving one week's feed when consumption is highest.

Market your hogs one week sooner

with arsanilic acid in your feed.

- **save money on feeding costs**
- **get the safest, surest protection against scours**
- **get more uniform growth, fewer runts**

YOU'LL get faster growth on less feed . . . plus better protection against scours . . . when your hog feeds contain Arsanilic Acid. Agricultural college studies as well as practical farm tests have proved that Arsanilic Acid is a safe, effective growth stimulant. Besides cutting feed costs, it works with antibiotics for the most effective, safest protection against scours.

Arsanilic Acid improves the performance even of feeds already fortified with antibiotics.

In tests at the University of Minnesota, pigs receiving a ration supplemented with antibiotics and Arsanilic Acid made 12 to 21% greater gains than pigs receiving the same ration without Arsanilic Acid.

A combination of antibiotics and Arsanilic Acid gives better results in reducing the "disease level" in pigs than either one alone. And, Arsanilic Acid stimulates greater growth during the entire growing period—makes for fewer runts, greater uniformity.

Arsanilic Acid is produced by Abbott Laboratories, North Chicago, Illinois, and sold to feed manufacturers as Pro-Gen®. More and more of them are taking advantage of this new growth stimulant and are making it available in all forms of hog feeds—pig starters, hog balancers or supplements, and hog concentrates. Arsanilic Acid is always listed on the feed tag in such feeds.

If you want greater growth, greater uniformity, and the safest, surest protection against scours, be sure your hog feeds contain Arsanilic Acid. Ask your feed dealer for feeds that contain Arsanilic Acid . . . and, look for it on the feed tag.

For more information about Arsanilic Acid, mail coupon below.

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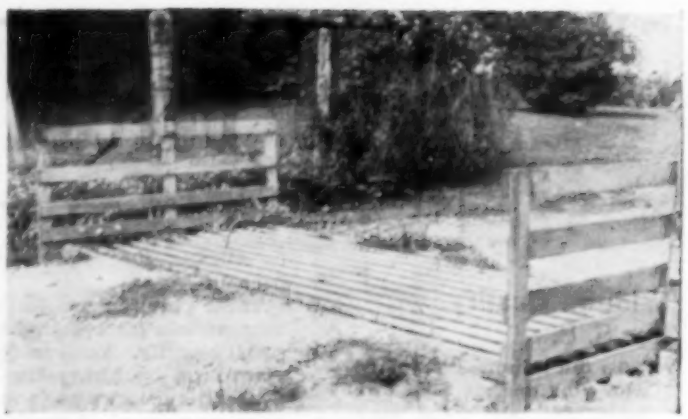
Dept. W.
Chemical Sales Division
North Chicago, Illinois.

☐ Send me more information about Arsanilic Acid for hogs.
☐ Send me the names of hog feeds containing Arsanilic Acid.

Name: _____

Address: _____



Farmstead on the Sylvester Kruse farm, Lee county, Iowa, joins the pasture where cattle graze. This cattle guard saves opening gates when driving in and out. The guard is made of 1½-inch pipe 12 feet long welded to four foot beams of an old scale platform.

Step-savers for livestockmen

HOW many times do you climb up and down your tractor when you haul feed or water to your hogs or cattle on pasture? Depends on how many gates you have to go thru.

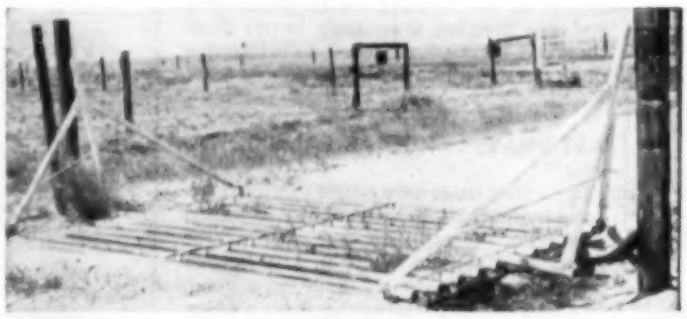
To pass thru a gate, you have to: Climb down from the tractor and open the gate; climb back on the tractor and drive thru; climb down and close the gate; climb back up and drive on.

Then when you return, you go thru the whole process again.

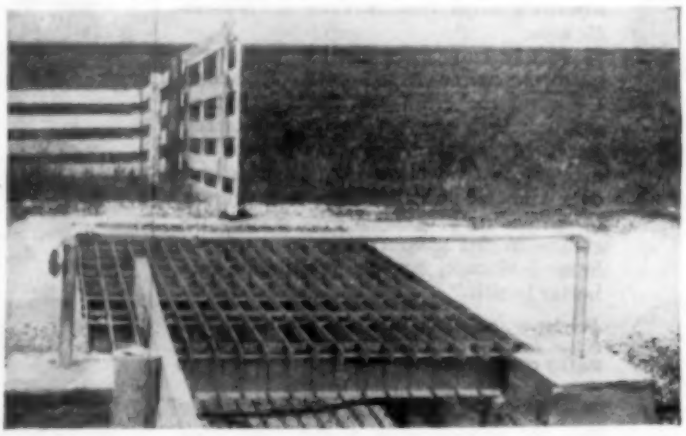
But there's a device that works better than a wife or hired man for holding gates open. "Cattle guards" are used by many farmers and ranchers.

Pictures on this page show a few examples. Cattle guards aren't hard to build. Pictures show cattle guards that have been made of iron. But wood posts or beams can also be used.

One suggestion: Make them far enough across so an athletic heifer won't jump across and get loose.

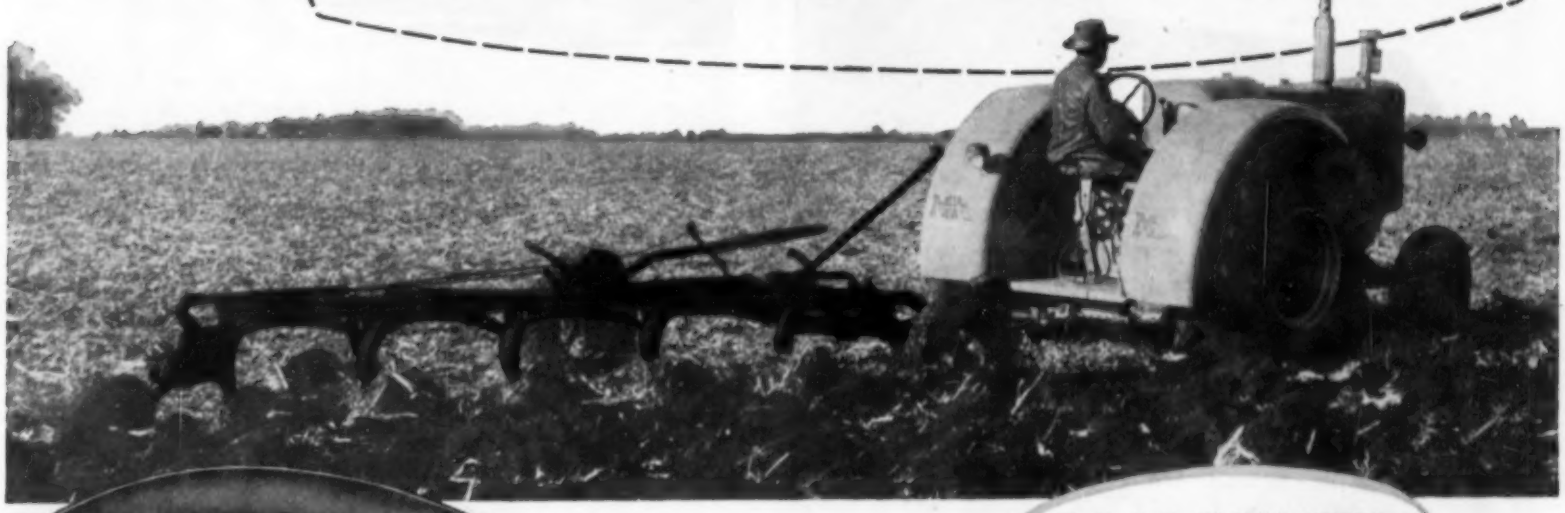


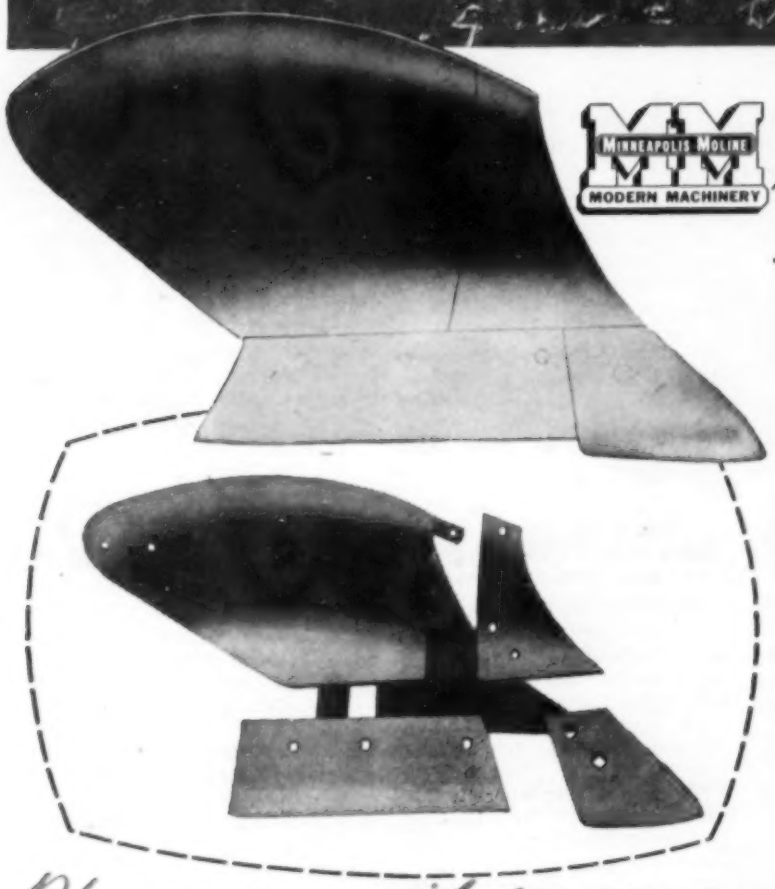
Welded construction is featured in this cattle guard. Pipes at top are held in place and kept from rolling with rods that are welded to the top at ends and in middle. These pipes rest on heavier cross pipes and on concrete culvert. On the Weld county, Colorado, ranch of Elmer P. Ball.



Grid over concrete culvert forms cattle guard on the J. G. Foecke farm, Lee county, Iowa. Welded flat irons, ⅜-inch by two inches by 14 feet, are spaced 3½ inches apart and rest on channel iron girders.

NOW... A 4-PART PLOW BOTTOM BUILT TO OUTWEAR ONE-PIECE SHARES!





2-3-4-5 PLOW SIZES

MINNEAPOLIS-MOLINE MM MODERN MACHINERY

A new RP BOTTOMS save money 4 ways

1 **Four parts—and every part built to take it!** Point, shin and share of the new Minneapolis-Moline RP bottom are *all* replaceable . . . and they're *all* built to outwear the heaviest old style bottoms. Shin and moldboard are MM's exclusive one-piece soft-center steel. The point, which bears the brunt of the wear, and the blade are of the toughest high-carbon forged steel.

2 **Easy, low-cost replacement!** Every part of every MM RP bottom is precision machined to fit perfectly. Any time you change or replace any part of the bottom, you're sure of a perfectly matched unit. That's why your RP bottom *keeps* giving you "new plow" performance . . . season after season.

3 **Shaped for high-speed plowing at its best!** To make the most of modern tractor power takes a bottom that will scour at high plowing speeds. MM RP bottoms are shaped to keep pressure uniform over the entire plowing surface at high plowing speeds . . . there's no low pressure point for earth to collect . . . scouring problems virtually disappear.

4 **Interchangeable shares give you 3 bottoms in 1!** You interchange 12-, 14-, and 16-inch share blades on the RP bottom in a matter of minutes. You always plow with the share that matches tractor power and soil conditions . . . never overload, never underload.

Both the standard RP and the deep-tillage RPD sectional plow bottom are designed to fit all standard MM plows. See your MM Dealer now. Find out at what low cost you can convert your present MM plow to the most advanced plow bottom in the field!

Plow every soil for every crop, faster and for less!

NEW WIDE-CUT WR DISC PLOW

Plow with real section-sized capacity with this new MM WR Wide-Cut Disc Plow. Four disc-gang units with six 24-inch discs to the gang give you a cut adjustable from 13 to 16 feet. Also available: 4- to 10-foot WP Wheatlands; 11½- and 14-foot Tillagors; 3- to 6-Disc TRA Disc Plows; 4-5 disc EA and 2-3 disc EB plows.

2-TO 5-BOTTOM MOLDBOARD PLOWS

These are the plows that put your land into top-production shape at big savings in fuel and time. Take your pick of 2-or 3-bottom plows for 3-point hitches, and Hi-Klearance pull-behinds from 2- to 5-bottoms. All are available with the new RP or RPD sectional bottoms.

NEW TW 2-WAY PLOW

Hitch your tractor to this new TW Tumblebug and you're plowing with the best-selling two-way plow in the field! Matched left and right gangs trip over at the pull of a rope, let you turn every furrow the same way with no dead furrows or back furrows. Take your choice of RP or deep-tillage RPD sectional plow bottoms.

MINNEAPOLIS-MOLINE

first in plow performance

MINNEAPOLIS 1, MINNESOTA

NEW HOG SUPPLEMENT helps make up for late farrowing

SurePork 35 cuts weeks off average time to market!

• If your pigs farrowed later than usual last spring, Larro SurePork 35 offers new help in cutting time to market.

This powerful new supplement, developed by General Mills' research in testing over 800 formulas, has already proved it can beat U. S. average time to market by as much as 80 days. The price figures above illustrate why this can be important to you.

Larro's new SurePork 35 stimulates faster growth because it supplies the exact combination of nutrients that hogs need to grow and fatten their best under practical farm conditions.

It contains health-giving vitamins, new growth-promoting antibiotics and high-quality proteins that help hogs get maximum benefits from home-grown grains. In addition, SurePork 35 supplies Larromin, an exclusive mineral formula that ends the need for special mineral feeding. Builds sound bones, strong backs and good blood.

New Larro SurePork 35 is now available from your Larro SureFeed dealer. Use it to help make firm pork fast — cut time to market — and produce an extra profit over feed cost.

YOU'RE MONEY AHEAD WHEN THEY'RE LARRO-FED!

Economize, save feed!

Larro SurePork Pasture 40 is a specially fortified supplement for hogs on good pasture. When fed as directed, you can expect average daily gains of more than 1¾ lbs. per head.

General Mills, Inc.
MINNEAPOLIS 1, MINNESOTA

SP-1-5

Farm equipment being pulled along highway should be marked by red flag to warn motorists they are approaching a slow moving vehicle.

Could your farm be a killer?

Farming is a dangerous occupation, but here are ways to make it safer

EVERY day, some farmers are hurt accidentally. Last week, it was a fellow in the next township. Next week, it could be you.

So far this year, 31 Iowa farm people have been killed in tractor accidents. These people ranged in age from four to 75 years.

These fatal accidents happened in many ways. Some fell off tractors and were run over. Others ran the tractor off the road and were crushed in the ditch. Some were killed when tractors and cars collided on roads.

Fatal farm accidents add up to about 14,000 each year. And more than a million are injured.

Accidents cost in many ways—doctor bills, hospital bills, jobs not done on time, and perhaps hired help. Costs go even higher if you don't heal as good as new.

Would it pay to try to make your farm a safer place to work?

Big thing is to operate farm machinery safely. Here are some farm machinery safety rules. See if you follow them.

1. Stop a machine before cleaning, adjusting, or oiling any part. Never do such jobs while the machine is in motion.

2. Don't refuel a tractor while the engine is running.

3. Don't reach over to unclog knives of any machine with your hand. Use a stick, only after stopping the machine and throwing it out of gear.

4. Keep guards in place which are provided to shield exposed machinery parts.

5. Don't get on or off a harrow or disk while it is in motion. A misstep might cause you to fall in front of the machine.

6. Don't let children play around power equipment, or give them rides on tractors or other equipment.

These precautions apply to combines, hay balers, corn pickers, feed grinders, silage choppers, mowing machines and all other farm equipment.

Farm machinery is safe enough provided: 1, you operate it according to the manufacturer's recommendations; and 2, you don't get in such a hurry that you take chances.

Falls injure many farm people each year. You can get hurt so many ways in a fall. Broken arms, legs, hips, backs, necks, brain concussions . . . and sometimes death.

Here's a check list that may help you avoid some broken bones:

1. Check ladders for broken or rotten rungs. Use only strong, safe ladders.

2. Repair holes and loose boards in hay mow floor. Check ladder or stairway leading to hay mow.

3. Put handrail on all stairways and steps in house and farm buildings.

4. Keep stairways clear of toys, magazines, and boxes.

Lifting hay into hay mow is easy using ropes, pulleys and a tractor. But check the rope or cable for frayed places.

No Matter What

They Dream Up Next...

IT'S TIME NOW...TO ORDER Mobil Farm Lubricants!

SAVE 3 WAYS

Special Future Order Plan for '56

SAVE

Liberal Discounts—from list prices on famous Mobil Farm products are available when you order your 1956 farm lubrication needs in advance.

SAVE

Price Protection—If prices rise before delivery, you pay the lower price. If they fall, you pay the lower price.

SAVE

Top-Quality Products—give your farm equipment the finest lubrication protection possible—save on wear and repairs. Mobiloil—the super-detergent heavy-duty oil . . . Mobilgreases—stay put even under shock loads . . . Mobilube Gear Lubricants—guard against scuffing wear. There's a Mobil Lubricant for every farm need. Save in '56—order today sure.

DON'T DELAY

Special Offer for Limited Time Only!

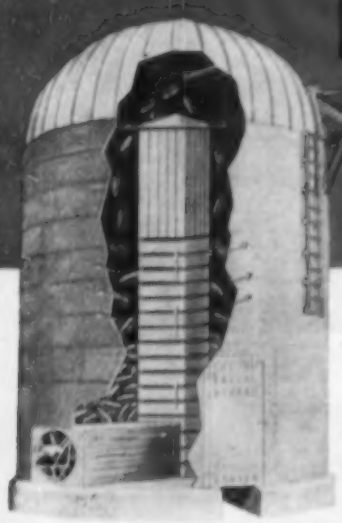
CALL YOUR

Mobilgas-Mobiloil Man

Mobilgas

Harvest More Corn... Make More From It!

with a MARTIN HIGH ROUND CRIB

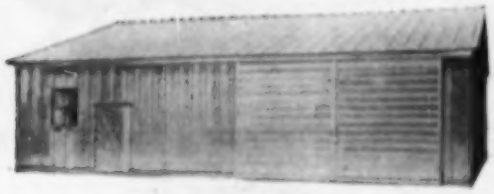


You can harvest more corn by picking early when stalks are pliable, at moisture as high as 35%, and save those many ears that are downed by weather and vermin—IF you have a Martin High Round Crib in which to dry your ear corn. Your picker will shell off far, far less, too, when you pick early. A High Round dries your ear corn safely and economically with unheated air, and stores it in a rodent-proof, weather resistant, permanent structure that gives you more first-class storage for a dollar.

MARTIN HARVEST HOARDERS

For shelled corn (or any small grain), and smaller quantities of ear corn, Martin Harvest Hoarder Cribs and Bins are your best investment.

CUT COSTS, BOOST EFFICIENCY With MARTIN Rigid Frame Buildings



- LESS MAINTENANCE
- EASILY ADAPTED
- LONGER LIFE
- NO WASTE SPACE
- NO POSTS OR TRUSSES INSIDE
- ECONOMICAL

Your farm building dollars will go farther in a Martin Rigid Frame Building that gives you straight sidewalls and a post-free, wide-open interior that lets you place partitions or park implements where you want them. Compare costs with any other construction—you'll be amazed! With the wide selection of doors, windows, ventilators and similar accessories you can adapt a Martin to just about any need. And, so easy to erect—do it yourself in a few days, or your local Martin Man will do it for you. Dollar for dollar—it's your best farm building buy!

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CITY & STATE 523

"Defend Formosa only if the UN agree to help." This is the view of Raymond Lang of Lee county, Iowa, and of a good many other Iowa farm people.

Will we fight for Formosa?

Wallace-Homestead Poll shows farmers divided on national policies in China and Formosa

WILL YOUR BOY have to fight for Formosa—or for Quemoy and Matsu? Things have quieted down in the Chinese war lately, but there is still plenty of chance for an explosion.

What do Iowa farm people think about our national policy in the civil war between Nationalist China, on Formosa, and Red China, on the mainland?

The Wallace-Homestead Poll asked:

"Chinese Communists are talking about invading territory held by Chiang Kai-shek. This includes Formosa and the small island groups of Quemoy and Matsu near the Chinese coast. If the Chinese invade Quemoy and Matsu, what should the U. S. do?"

Iowa farm people voted as follows:

1. Help Chiang Kai-shek to beat back the Reds. Use atom bombs on the mainland if necessary.....20%
2. Help Chiang to move his troops to Formosa, but take no other part in the affair.....17
3. Take no action at all.....23
4. Don't know what we should do.....40

From the comments of those interviewed, farm people are worried about the situation in the far east, but are not at all sure what should be done.

Defense of Formosa seems an easier question to discuss than defense of Quemoy and Matsu. So the Wallace-Homestead Poll asked:

"If the Chinese should try to invade Formosa (which the U. S. is pledged to defend), what should the United States do?"

On this, Iowa farm people answered:

1. Fight them. Use atom bombs on the Chinese mainland if necessary.....25%
2. Defend Formosa only if the United Nations agree to help.....27
3. Keep hands off the whole affair.....17
4. Don't know.....31

How does this point of view compare with earlier polls? Last winter, 17 percent were for defense of Formosa and 42 percent more were for defense if the UN came in. This 59 percent total for active defense compares with 51 percent now.

Strong for fighting now, in case of attack on Formosa, was a young farmer in Jefferson county, Iowa. He said:

"Maybe I'm cruel, but I say use the atom bomb if necessary. Why spend all that money to make bombs and not use them? And why lose a lot of our boys? They don't put the same value on their boys that we do on ours . . . I know this isn't according to the Bible, but it's what I say."

None of those recommending atomic warfare mentioned the possibility that atom bombs might be dropped on our own bases in Okinawa and Japan.

Another view came from a young World War II veteran who declared:

"I don't know what we should do. I spent three and one half years in the service, three years over there, and what did we get done? It didn't seem to do any good. Those folks don't live and think like we do."

WIN A $3500 FARM BUILDING!

FREE! A multi-purpose, pole frame building set up on your farm ready to use! Plus 34 other prizes worth $3,000. Nothing to buy! Enter this exciting Monsanto Penta "Win a Building" Sweepstakes today!

Here's all you do to enter!

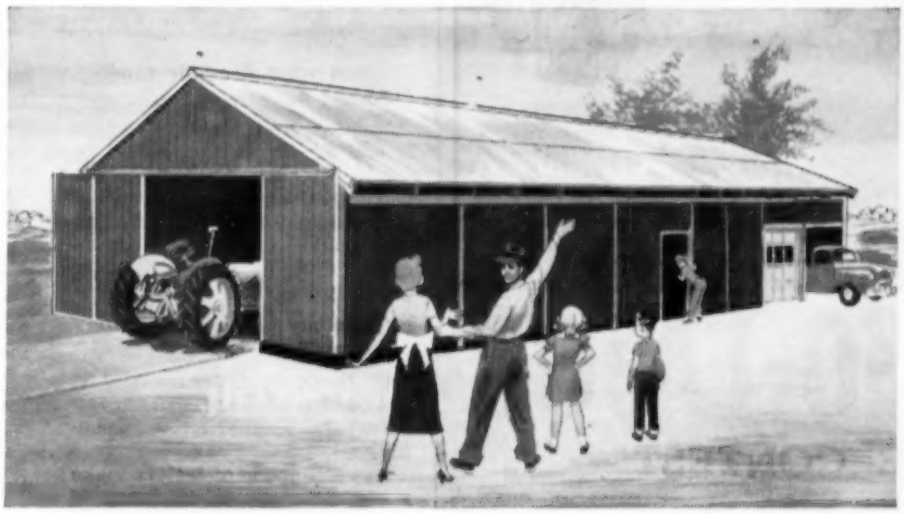
There's nothing to buy! Get your Official Entry Blank from your local lumber dealer. Answer the few easy questions correctly, and mail it. All winners will be chosen by blindfold drawings.

First Prize!

Utility building—ideal for housing livestock, storing grain, protecting machinery!

$3500 pole frame 30′ clear-span machine shed . . . designed by a leading agricultural engineering service . . . made of long-lived Penta pressure-treated wood with metal roof . . . easily adapted to many farm storage and shelter needs. Winner will receive this or any other equal-value, pole frame building of his choice. And there's a bonus for the family of the first prize winner—a year's supply of *all,* Monsanto's wonderful "controlled suds" detergent.

PLUS 34 OTHER PRIZES WORTH $3,000.00



4 Second Prizes

Each Second Prize is $250 worth of Penta pressure-treated first-quality lumber. Perfect for dozens of construction jobs . . . brooder houses, a new porch, farrowing house, loafing barn, etc.

10 Third Prizes

Each Third Prize is $100 worth of Penta pressure-treated fence posts, good for 30 years or more, delivered to your farm, ready for use.

20 Fourth Prizes

Each Fourth Prize is $50 worth of Penta pressure-treated Masonite® Tempered Presdwood® in assorted sizes suitable for a wide variety of construction uses.

OFFICIAL CONTEST RULES

1. Answer the four questions shown inside your entry blank. Fill in your name and address on the official Penta Sweepstakes Entry Blank. It is to your own advantage to write clearly, and to give your complete address. There is nothing else to write, nothing to buy, BUT YOU MUST ANSWER THE QUESTIONS CORRECTLY TO BE ELIGIBLE FOR THE DRAWING.

2. Mail your entry blank to Monsanto Penta "Win a Building" Sweepstakes, Box 5651, Chicago 77, Illinois. All entries must be postmarked before midnight, September 9, when the contest closes.

3. All persons are eligible to enter, except employes of Monsanto Chemical Company, participating treating plants and suppliers of Penta pressure-treated wood, participating dealers, any advertising agency connected with any of the foregoing, or their families. This promotion is subject to Federal, state and local regulations.

4. Prizes will be awarded on the basis of a BLINDFOLD DRAWING by name, under the direction of the Reuben H. Donnelley Corporation, impartial judges of hundreds of contests, whose selections are final. All winners will be notified by mail. Prizes must be accepted within six months.

PENTA PRESSURE-TREATED WOOD...

SAVES MONEY...SAVES WORK...MAKES BUILDING EASY

THESE big benefits are yours when you build with Penta pressure-treated wood. The reasons are simple! Wood that has been preserved with Penta is protected with the best all-around wood preservative. And, when Penta has been applied to wood by pressure treatment, you can be sure that the wood has maximum protection because pressure treatment forces the Penta deep into the wood and distributes it evenly.

PENTA pressure-treated wood . . . . . saves you money

because Penta makes wood last four times longer. Penta protects wood from decay, and from termites and all other wood-destroying insects as well. The expense of repair and replacement is cut to a minimum.

. . . saves work

because you can do the job once and forget it for about 30 years. Consider, for example, the use of untreated fence posts that have an average life of about 7 to 8 years. During a 30-year period, you would have to set and re-set untreated posts three to four times. With Penta pressure-treated posts, you could do the job once and be done—because a post properly pressure-treated with Penta can be expected to last 30 years or more.

. . . makes building easy

because Penta pressure-treated wood is clean, and won't "burn" hands. You need no special equipment or clothing. When building is completed, working and storage areas remain clean and free from dirty, sticky substances.

Save this information sheet and pick up an official entry blank at Monsanto Penta Sweepstakes Headquarters (your local lumber dealer). Contest closes Sept. 9, 1955!

Look to Monsanto for chemicals to make farming easier ...more efficient...more profitable for you.

HERBICIDES...2,4-D • 2,4,5-T • MCP-90 • Chloro-IPC

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GRASS SILAGE PRESERVATIVE... Medo-Green *Medo-Green Reg. U. S. Pat. Off.*

MONSANTO CHEMICALS—PLASTICS

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A PUREBRED GILT can be yours FREE! NOTHING TO BUY OR SELL. JUST COMPLETE THE VY-TAB-O-LATOR JINGLE.

A PUREBRED CALF . . . A FUTURE CHAMP. JUST COMPLETE THE LAST LINE OF THE VY-TAB-O-LATOR JINGLE.

FIRST PRIZE IS A CHOICE OF EITHER THE CALF OR THE GILT. SECOND PRIZE WILL RECEIVE EITHER THE GILT OR CALF (1st prize has choice) PLUS 10 OTHER PRIZES. DO IT NOW! ENTER THIS FREE CONTEST TODAY!

DR. MACDONALD'S

VY-TAB-O-LATOR

JINGLE CONTEST

RULES

1. Originality and neatness will be a factor.
2. Contest closes midnight September 15, 1955. Winners will be notified.
3. Employees, Dealers and families of Dr. Macdonald's Vitamized Feed Company and their Advertising Agency are not eligible.
4. Awards will be determined by a board of judges and their decision will be final.
5. Entries cannot be returned

OFFICIAL ENTRY BLANK

For greater profits when you sell

VY-TAB-O-LATOR will ring the bell

For prizes, prices—it's the same

.....

Yes . . . Like Dr. Macdonald's Vy-Tab-O-Lator feeding program it is EASY! Simply complete the last line of the jingle and mail your entry to DR. MACDONALD'S JINGLE CONTEST, DR. MACDONALD'S VITAMIZED FEED COMPANY, FORT DODGE, IOWA. NOTHING TO BUY OR SELL. SEND IN YOUR ENTRY TODAY.

BE CERTAIN TO PRINT YOUR NAME CLEARLY. WE CANNOT ACCEPT RESPONSIBILITY FOR LOSS OR DAMAGE OF ENTRIES.

NAME _____

ADDRESS _____

CITY _____ STATE _____

WE FARM _____ ACRES

FACTS ABOUT VY-TAB-O-LATOR

Beef, Swine, or Sheep—there is a feeding program designed to produce profit at lower cost. From Start to Finish VY-TAB-O-LATOR will meet your every requirement. Over 2,215 Champions during the last 17 years have been conditioned with Dr. Macdonald's VY-TAB-O-LATOR. CHECK YOUR FEEDING PROGRAM . . . INCREASE GAIN WITH HOME GROWN FEEDS THE EASY WAY (AND ECONOMICAL WAY) WITH VY-TAB-O-LATOR.

REMEMBER—IT'S THE FINISH THAT COUNTS

DR. MACDONALD'S VY-TAB-O-LATOR IS SOLD ONLY THROUGH DEALER-SALES REPRESENTATIVES. THERE ARE A LIMITED NUMBER OF TERRITORIES AVAILABLE. IF YOU ARE INTERESTED IN A "GOOD" BUSINESS WRITE FOR DETAILS ON THE VY-TAB-O-LATOR SALES PROGRAM.

Dr. Macdonald's
VITAMIZED FEED COMPANY
FORT DODGE, IOWA

Air conditioning

Would it work for you? Here are some answers

HOT WEATHER make you think about air conditioning? You bet it does.

But then come practical questions: Can it be adapted to my house? What kind of unit would I want? And a whole list of others.

Here are some questions you would ask. And answers to those questions.

Just what does air conditioning do?

It cools the air and lowers humidity. Air is circulated, too.

Lowering the humidity is important. Otherwise, cooling the air would increase humidity. And that would make many folks uncomfortable in spite of cooler temperatures.

Can my house be air conditioned?

In most cases, the answer is yes. Most houses are easily adapted to some kind of air conditioning.

But a number of factors make a big difference in efficiency of operation.

What types of units are available?

Air conditioners are divided into two basic types. One has a water cooled condenser. The other is air cooled.

And they can be divided into room units and central units. Central installations are usually used for cooling the whole house.

Most of the room units have air cooled condensers. But central units may be water cooled. That may require quite a lot of water unless you put in a cooling tower or other method of saving water.

What type of unit should I get?

First thing to decide is how much area you plan to cool. For just a room or two, room type units are the least expensive.

But you may want a central unit if you plan to cool the whole house. That is especially true if (1) you are building a new home, (2) your present heating system is ready to be replaced, or (3) you have a near new house.

In such cases, heating and air conditioning units can often be installed together. With a hot air heating system, the existing duct work might be all right for the air conditioner, too. Better get someone with a solid background of experience to guide you on that.

What do ton and horsepower sizes mean?

Horsepower indicates size of motor used to drive compressor. Tonnage indicates rated cooling capacity.

A ton of cooling capacity roughly equals one horsepower as far as air conditioners are concerned.

How much is a ton of cooling capacity?

That is the amount of cooling produced by 2,000 pounds of ice melting in 24 hours.

What size unit am I likely to need?

That can't be answered definitely without knowing some things about your house. But here's a rough guide you can use for some figuring.

Suppose you have a well built house with ceilings not over nine feet high. And that the house has overhead insulation and weather stripping.

Under those conditions a one ton unit should cool about 500 square feet of floor space. Count on a half ton unit handling about half that much space.

No rule fits every home. There are many conditions that can affect the area cooled. There's a difference between brands of air conditioners, too.

It is best to talk with a reliable dealer or specialist before choosing a size.

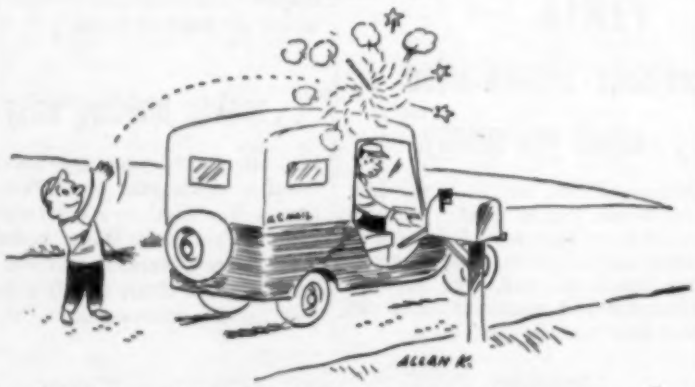
What are some of the important factors that influence size?

House construction, insulation, shading, local weather, window area, ceiling height, weather stripping and many others. Even number of people using the house and color of outside walls can make a difference.

In one study, insulation cut the size unit needed from five horsepower down to two.

(Continued on next page)

Mud-Road Mac



"Nothing much seems to happen on this route anymore . . ."

What is cost of cooling air?

(Continued from last page)

What does it cost to operate an air conditioner?

The same factors and many others make a definite answer difficult. But here's a way you can do some figuring.

Power for the compressor motor is the big item. The small fans for circulating air take little power.

A three-quarter ton unit will probably take about one kilowatt per hour. That's the same as 10 light bulbs of 100 watts each.

So the price of electricity per kilowatt is about the per hour cost of operating a three-quarter ton unit.

During hot summer days, the unit might operate 12 to 15 hours. Many days will be less than that.

Don't expect these figures to apply exactly. At best, they are a rough guide.

Could I install an air conditioning unit myself?

Room units are seldom difficult to install.

But try the central unit only if you have the skill and tools to do the job. Even then, you may not want to tackle the design and construction of the duct system. Thats no job for an amateur.

One important part of shopping for an air conditioning system is selecting the dealer who installs and services the equipment.

About all you have to go on is local reputation. But be sure to check into that.

Where in the house should a room unit be installed?

Choice of the room is up to you. Put it where you will enjoy and use it most.

Locating the air conditioner on a shaded wall improves the operation. But is isn't necessary.

How cool should the house be kept?

There's no definite rule on this. Adjust temperatures to your own comfort. Usually, the range is 75 to 80 degrees.

The amount of dehumidifying action you get with cooling makes a difference in the temperature you choose.

Most home units have no direct humidity control. Lowering the humidity is a byproduct of the cooling action.

For this reason, it is important to use the proper size unit. Or even slightly under size. That's the advice of H. T. Gilkey, engineer with the National Warm Air Heating and Air Conditioning Association.

The smaller unit operates more of the time. As a result, it removes more of the moisture. But don't get a unit much below proper size, if you want efficient operation, warns Gilkey.

Will an air conditioner help relieve hay fever?

Probably. Not as much dust and pollen get into the house because doors and windows are kept closed. And some dust is removed from the air by filters. Some pollen will be removed as air passes over the cooling coil.

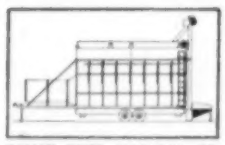
How Batch Bin Drying Pays Off!

LENNOX DRYING PRODUCED $1338 IN EXTRA CROP PROFITS THE 1ST YEAR IN IOWA TEST

The chart below shows how Lennox Batch Bin drying makes you more money. On only 60 acres of corn, savings alone amount to an average of $1338.48 in a single year on corn picked at 30% moisture content. Price of corn for this experiment was figured at $1.30 per bushel . . . moisture discount was figured at 3¢ per bushel up to 17% content and 4¢ per bushel up to 15.5% content.

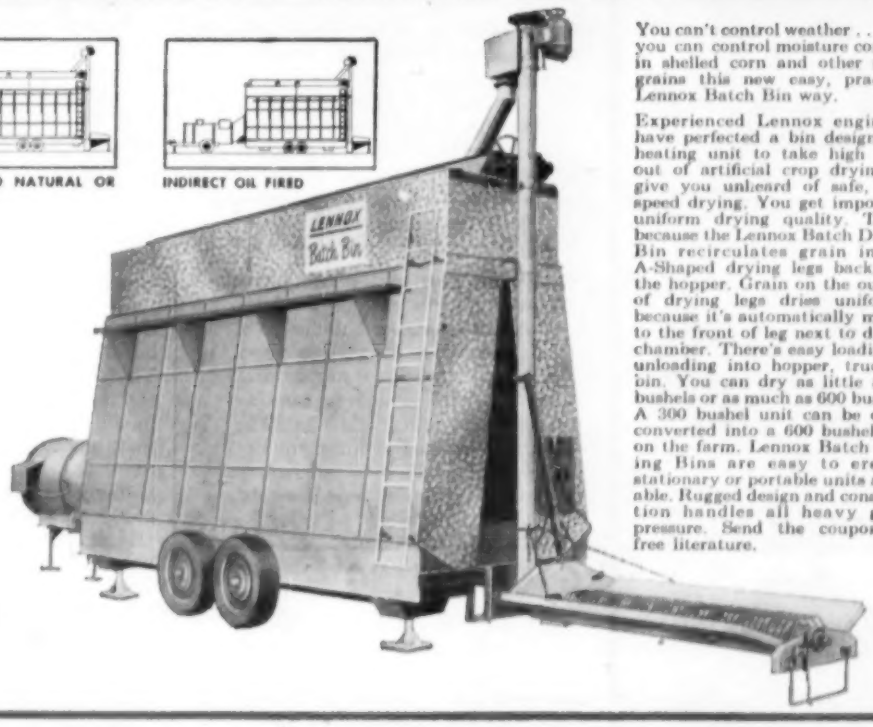
Moisture Content	Total No. of Bushels	Discount Lost on Moisture if Sold at Picking Moisture	Shrink Cost Due to Drying Corn to 15.5% Moisture	Your Extra Profit Gained by Drying Corn to 15.5% Moisture
20.0%	3600	$ 595.00	$210.10	$ 384.84
25.0%	3600	$1314.00	$443.16	$ 870.84
30.0%	3600	$2034.00	$695.52	$1338.48
35.0%	3600	$2754.00	$902.52	$1851.48

KEEPS AHEAD OF THE BEST PICKER SHELLER UNIT — SKIN STRESSED AIRCRAFT TYPE DESIGN — IN SEVERAL CAPACITIES



DIRECT FIRED NATURAL OR LP GAS

INDIRECT OIL FIRED



You can't control weather . . . but you can control moisture content in shelled corn and other small grains this new easy, practical Lennox Batch Bin way.

Experienced Lennox engineers have perfected a bin design and heating unit to take high costs out of artificial crop drying . . . give you unheard of safe, high speed drying. You get important uniform drying quality. That's because the Lennox Batch Drying Bin recirculates grain in the A-Shaped drying legs back into the hopper. Grain on the outside of drying legs dries uniformly because it's automatically moved to the front of leg next to drying chamber. There's easy loading or unloading into hopper, truck or bin. You can dry as little as 75 bushels or as much as 600 bushels. A 300 bushel unit can be easily converted into a 600 bushel unit on the farm. Lennox Batch Drying Bins are easy to erect—stationary or portable units available. Rugged design and construction handles all heavy grain pressure. Send the coupon for free literature.

LENNOX

FARM EQUIPMENT DIVISION

THE LENNOX FURNACE COMPANY
DES MOINES, IOWA

Manufacturers of a complete line of crop drying equipment, grain aeration fans, wagon box drying units, portable heating units, hay drying fans, crop dryers, and batch bins.

SEND FOR THIS NEW, FREE REVISED 1955 EDITION CROP DRYING MANUAL

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Yes, I am interested. Please send me a new Crop Drying Manual.
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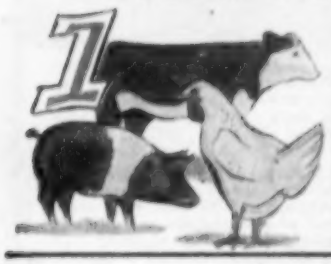
"IT TAKES ALL THREE"
FOR TOP PROFITS



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Good breeding is the cornerstone on which profits are built. Whether you raise hogs, cattle, poultry or other livestock it is important to begin with stock that will live and utilize feed to the best possible advantage.

GOOD MANAGEMENT

Proper facilities and housing are the obvious signs of good management. Livestock raised under poor conditions cannot utilize feed properly. Many times proper and adequate farm buildings can increase your profits by 10 to 20%. Honegger Farm Buildings are designed to save you time and money in the production of your livestock and poultry.

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Using only top quality ingredients, mixed with precision accuracy at Honeggers' push-button Feed Mill and tested and proved at Honeggers' 600 acre Practical Test Farm, Honeggers' produce a quality feed for top profits at less cost.

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Meadows may need fertilizer

Here's a rough guide on which fields may need plant food. And on how much to apply

THERE'S still time to put fertilizer on your legume meadow. That includes new seedings not fertilized at seeding time. And established stands that need extra plant food.

In most cases, application at seeding time is best for a new stand. Unless the soil has a high level of balanced fertility, it helps insure a thicker stand of healthy, fast-growing plants.

If you didn't get fertilizer on at seeding time, put it on soon after oats are harvested.

This may not be quite as efficient. But it can give big boosts in hay yields on soils short in phosphate and potash.

In general, top dressing is not intended as a substitute for fertilizer applied at seeding time. That's the word from Iowa State College fertilizer specialists.

But it can work out well. Lyle Nice of Whiteside county, Ill., usually applies phosphate fertilizer after oats are harvested.

"Field conditions are better for bulk spreading during the summer," he points out. "Soil isn't soft and wet like in the spring. And it is a lot easier to get trucks over oat stubble than over ridges left by contoured corn," he adds.

Then Nice sounds a warning important to many farmers.

"I wouldn't try delaying the phosphate application on any but high fertility soils. You might not get a good stand," he says.

"I've been getting good stands and good yields. But I think it is due to the high fertility level. There's plenty of phosphate in the soil when the seeding is made. What I add later is just a maintenance application," he figures.

Early spring application is considered best for established stands. But almost any time will do. Fall application often saves many plants from winter kill if plant food is short.

Aim to get the fertilizer applied shortly after a crop of hay has been removed. And be sure the plants are dry.

Otherwise, some of the fertilizer—particularly potash—may stick to the leaves. That can cause "burned" spots.

Broadcasting seems to be the best means of application. On established stands it gives a little better efficiency than drilling.

In 1953, Leonard Applegate of Woodbury county, Iowa, topdressed a stand of alfalfa after first cutting. He used 60 pounds per acre of available phosphate. Weather during the rest of the season was dry. So there was little response.

But last year, the first cutting gave more hay than all three cuttings the year before.

Needless to say, Applegate is sold on top dressing.

There's lots of farmer experience and research to back up Applegate's opinion.

Top dressing is almost sure to pay when (1) not enough fertilizer was applied at seeding time or (2) the stand is being left down for more than two years.

Of course, a soil test is the best means of telling just how much plant food should be added. But in case you didn't get a test, there are rough guides to follow:

Over most of Iowa, 60 pounds of available phosphate is the best guess.

In the central and southern part of western Iowa, you might want to try getting by with a little less. About 40 pounds of available phosphate will take care of most fields in that area.

In some cases, higher rates may be most profitable.

Need for potash is a different story. Soils in about the western one-fourth of Iowa seldom need potash.

But level upland soils in north central and northeast Iowa are often short. Recommended rate for these fields varies from 30 to 60 pounds of actual potash.

Potash needs in east central and southern Iowa are not so great. Areas where potash pays are spotty.

Sandy soils all thru the state are almost sure bets for extra potash.

"And then . . . now watch very closely . . . the chick cracks the shell and suddenly . . ."

NEW CHEVROLET *Task-Force* TRUCKS

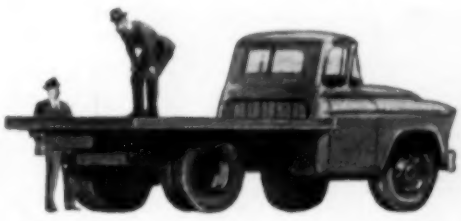
From America's No. 1 truck builder—the most modern trucks money can buy! With features available in no other make—advances designed to save money on every farm hauling job!

CHEVROLET

With their ultra-modern advances, these new Task-Force trucks do your work in record time with record economy. With new bodies, higher capacities, new frames, plus the biggest choice of power in Chevrolet truck history—you get the *most* for your new truck investment today . . . and *more* at trade-in time tomorrow! See them at your Chevrolet dealer's. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

New Styling in Trucks

Offering two distinctively different design treatments! New Task-Force cabs feature panoramic windshield and High-Level ventilation.

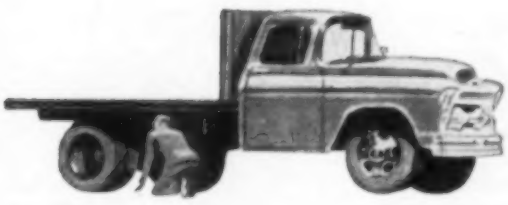


New 18,000-lb. GVW Capacity

Get this hefty maximum GVW in new 2-ton models. All models have more durable standard-width frames, plus new suspension front and rear.

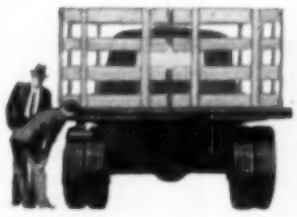
New Overdrive or Hydra-Matic

New Overdrive is optional on ½-ton models at extra cost. Truck Hydra-Matic is available on ½-, ¾- and 1-ton models, optional at extra cost.



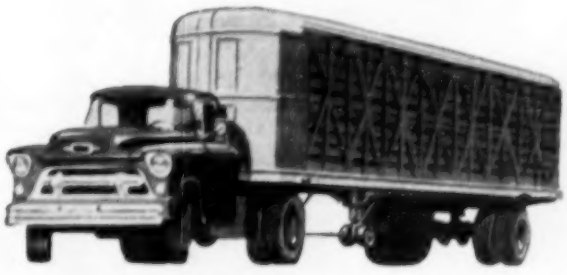
Six New "High-Voltage" Engines

The most modern engines in the industry! All six feature a new 12-volt electrical system for faster, surer starts; increased generator capacity.



New Power Brakes, Tubeless Tires

It's safer going with Power Brakes! Standard on 2-ton models, optional at extra cost in all others. Tubeless tires standard on ½-ton models!



New Handling Ease with Power Steering

Power Steering cuts turning effort up to 80% . . . helps keep you "on course" even on rough back roads. Available as an extra-cost option.

Mr. Smith's record of his corn drying operation which reduced the moisture content of his corn from 23.8% to 15.7% at a cost of less than ½ cent per bushel.

Pick earlier and store safely with a Quonset® Corn Dryer

"My Quonset corn dryer saved 6,000 bushels of corn for me," says Harold F. Smith, who operates a 400-acre farm near Harvard, Nebraska. "I used 876 kilowatt hours of current," reports Mr. Smith, "for a total cost of $23.02, or less than half a cent a bushel."

In two weeks the fan was run for 118¾ hours, averaging nearly 10 hours a day. Moisture content was reduced from 23.8 percent to 15.7 percent—low enough for safe storage.

Mr. Smith picked his corn earlier and was able to get at other fall work sooner. "I saved corn because it picked cleaner and with less shelling in the field," says Mr. Smith. And he adds, "With these savings and the higher price I get out of my corn for sealing it, my Quonset should pay for itself in 5 years."

Quonset corn storage and drying buildings are eligible under the new income tax provisions which permit farmers to depreciate, for tax purposes, the full value of buildings used for grain storage in five years. Under this tax provision, you can buy a profitable corn storage building and get a cash saving in your pocket this year.

Easily financed on the Quonset Purchase Plan. Quonsets for corn and small grain storage are also eligible for CCC Storage Facility Loans.

"It took just two weeks running 10 hours a day, for this fan to dry my 6,000 bushels down to a moisture content of 15.7%, which is safe for storage," says Mr. Smith.

"Loading corn into my Quonset is easy," says Mr. Smith. "Through the open door you can see the 12-foot section in the east end I left for a shop."

Farm for the Future...with Quonset®

GREAT LAKES STEEL CORP.
Stran-Steel Div., Ecorse, Detroit 29, Mich.

Please send me the latest literature on Quonsets for farm service buildings and the name and address of my nearest Quonset dealer.

Name_____

Address_____

City or County_____ State_____

27

GREAT LAKES STEEL CORPORATION
Stran-Steel Division, Ecorse, Detroit 29, Mich.
NATIONAL STEEL CORPORATION

Workday pointers

RED BARNS can be painted white, but it takes at least two coats to make a good looking job.

▼ ▼ ▼

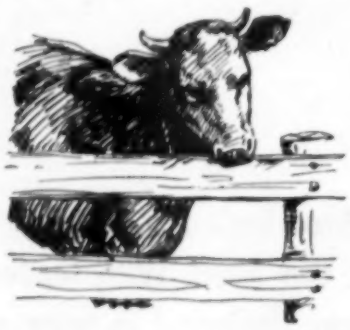
BEAN STORAGE SPACE may come in handy this fall. Big holdover and big acreage make it likely you'll want to use the government loan or purchase agreement.

▼ ▼ ▼

TO KEEP MILK at its best, keep it clean, cold, covered and in a dark place.

▼ ▼ ▼

FENCE CHEWERS among cattle usually lack some mineral or feed nutrient. First thing to do is to be sure that salt, minerals



and a good ration are provided. But "cribbers" can be victims of a bad habit. In that case, send them to market.

▼ ▼ ▼

SHORTCUT for figuring capacity of grain bins is this: Multiply length times width times depth, all in feet or fractions thereof. Then take four-fifths of the total. Or multiply by .8. You'll get just about the same answer as by the longer method of dividing cubic inches by 2,150.

▼ ▼ ▼

TESTS SHOW that pig gains are reduced by summer heat. Feed per pound of gain may increase one-fourth as temperature goes from 60 to 90 degrees. Shade and clean wallows will save part of the loss.

▼ ▼ ▼

STEEL ROOF getting rusty spots? Metalic zinc paint will protect it. Two coats are said to be good for 10 years.

▼ ▼ ▼

FORCED AIR drying of grain makes it possible to combine about a week earlier than with natural drying methods.

▼ ▼ ▼

BARLEY is worth about 90 percent as much as corn, pound for pound, as hog feed.

▼ ▼ ▼

PASTURE YIELD is highest when weed control and rotation grazing are practiced.

▼ ▼ ▼

YOU CAN SAVE leaves and protein content of hay by raking the first time before leaves get brittle. And by turning hay while dew is on in the morning.

▼ ▼ ▼

DUST IN SLEEPING quarters is a likely source of pig health problems.

COWS about to drop calves should not be in the same pasture with old sows. The hog is not a vegetarian.

▼ ▼ ▼

PIT OR TRENCH silos must have drainage. Build above the ground if yards are flat.

▼ ▼ ▼

PLOW LAND as soon as possible for alfalfa or fall wheat seedings. Later fall plowing may be better for corn, unless weeds are about to seed.

▼ ▼ ▼

APPLY 2,4-D to weeds when they're growing rapidly. Kill may be poor when weeds are suffering from drouth.

▼ ▼ ▼

PIG RATIONS can be one-fourth oats without slowing gains. But fattening sows need corn for a quick finish.

▼ ▼ ▼

IF YOU SET the combine to save every kernel of grain, you'll get some trash as well as the light kernels. If you set the machine to deliver only clean, heavy grain in the wagon box, some light kernels will be blown over. Most farmers try to get in between these extremes.

▼ ▼ ▼

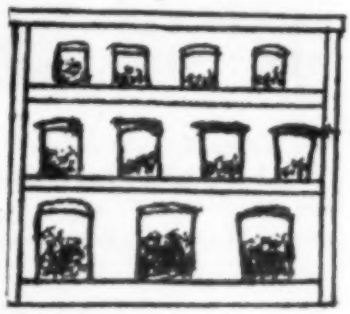
OATS SEED purchases were disappointing to a lot of farmers last year. Don't buy or contract to grow seed oats until you ask your experiment station about the oats. And be sure the seed sellers are established seedsmen with a reputation to maintain.

▼ ▼ ▼

IF YOU SPRAY weeds in corn, keep nozzles as low as you can. Corn can be hurt by chemicals at certain stages.

▼ ▼ ▼

GLASS JARS are much better than tin cans to store nails, bolts, screws, tacks, etc. You can see which container has the



article you want. You can put glass jars on shelves in your shop as shown here. Or you can tack the glass jar lids overhead in the shop and screw the jar into the lid. That saves space on your shelves.

▼ ▼ ▼

EXPERIMENTS in Illinois indicate that ordinary combines can be used to harvest corn. And now, combines are being offered specially fitted for both small grains and corn. Shelled grain drying units are required, of course, when corn is shelled in the field. But this method of harvesting corn looks promising. Better consider possible changes in harvesting methods before planning new corn storage units.

They're EXPANDABLE*!
Can be lengthened from 18' up to 42'

BIGGEST ELEVATOR NEWS IN 57 YEARS!
—the result of 57 years experience in building Farm Elevators!

They're AFFORDABLE!
You never expected a price so low

They're NEEDED YEAR 'ROUND!
*Now built to do jobs you never dreamed of before

New rugged derrick design—New "EZ-up" safety winch—New shock absorber "spring" ride—new combination hay chute and grain hopper—New power-take-off drive—New Expandability—America's *Quality* Elevator at a New LOW PRICE.

ALL THIS FOR AS LOW AS

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LITTLE GIANT MODEL ELEVEN HUNDRED 18'
Complete as shown, including new rugged transport, combination hay and grain hopper, power-take-off drive, except tires and tubes. *All Little Giant Elevators carry a FULL ONE YEAR GUARANTEE.*

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NOW! An Elevator You Can Expand Without Price Penalty

Here's the most sensational news in elevator history. *EXPANDABLE* means you can lengthen the Little Giant Elevator you buy up to MAXIMUM LENGTH any time during one whole year *without price penalty*—Expanding to a longer unit costs you no more than if you had purchased the longer elevator originally. Mass production and new manufacturing methods permit this unheard-of-low price, without sacrificing the Little Giant quality and performance every one recognizes. These new Little Giant Elevators have every advantage you ever wanted . . . All steel electro-galvanized sections—special non-rust paint protection on flights and chain—rust proofed bolts, nuts and hardware—comes complete with new PTO drive, heavy double #55 chain with spring steel flights on Eleven Hundred Elevator (#62 steel chain on Big 19)—section sides flared to more than 18" on Eleven Hundred, full 19" trough on Big 19. See your dealer today, or mail coupon below for information.

LITTLE GIANT BIG 19
Expandable—can be lengthened from 24' up to 50'. Big capacity for big farm jobs.

LITTLE GIANT ROLL-A-WAY CONVEYOR
Expandable at either end—Adjustable length and height. Has 101 farm loading uses. Fits into crib drag opening.

LITTLE GIANT BUCKET ELEVATOR
Install in any new or old crib at lowest possible cost. Takes up less crib space—all steel—easier to install. Longer life.

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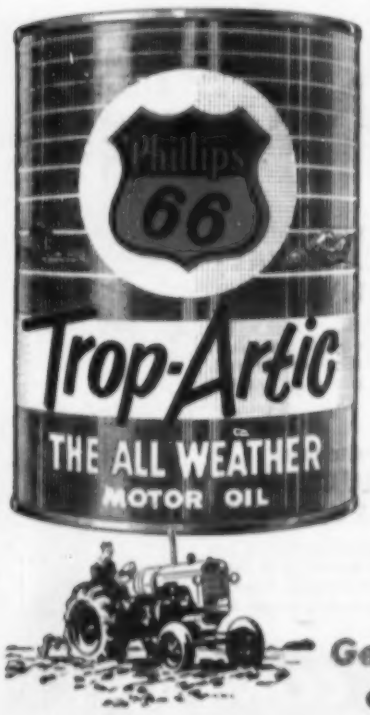
PHILLIPS 66 ADVANCE ORDER PLAN

IT'S PERFORMANCE THAT COUNTS!



For a sure, easy way to save money, just place your order for Phillips 66 Motor Oils, Gear Oils and Greases during July, August or September. Set the delivery date before May 31, 1956. This single delivery saves us time, trouble and handling expenses. And we pass these savings on to you in the form of *lower prices*. So act promptly and save money. Remember, you must order during July, August or September to realize the special savings.

Check these 5 advantages:

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2 **Top Quality Products . . .** including Phillips 66 Trop-Artic All-Weather Motor Oil.

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Get your order in NOW!

Call Your Phillips 66 Distributor Today!

PHILLIPS PETROLEUM COMPANY

Your Safety is in Your Hands! National Farm Safety Week, July 24-30.

Sun shade moves with the house on the Clifford Cruzen farm, Mahaska county, Iowa. Houses are lined up north and south to get the most shade and breeze. Planks are laid across gap between houses, covered with woven wire, and then with straw. Weights hold down the straw.

How five Iowa farmers

Keep sun off hogs

Low-cost sunshades are used on the F. McLaughlin farm, Des Moines county, Iowa. One at left is made from sheets of old galvanized roofing, the one at right from woven wire stapled between framework and covered with straw.

Versatile hog shade on the Harley Davison farm, Washington county, Iowa, can be boarded up on two or three sides and used the year around. It's eight by 16 feet and three feet high at the eaves. Skids are four by six lumber; posts and crosspieces, four by four. Roof is corrugated metal.

Old running gear supports this shade and allows it to be moved when dust or mud holes develop. Bernard Frye, Scott county, Iowa, built this 14 by 32 shade. Wooden slat fence is laid over the framework and wired down. A light covering of straw is held in place by cross laced binder twine. A coupling pole spreads the axles 20 feet apart.

Simple, low cost hog shelter that can be used year after year was built by Leland Claussen, Tama county, Iowa. Removable hinged sides can be dropped during colder weather or raised for shade in hot weather. Claussen sets 6½ foot posts in alfalfa fields spaced so sides can be nailed to them. He uses several shelters like this, each 12 by 32. Covering is rough lumber covered with loose straw.

SAVE YOUR LIFE!

Even after you get hay into the barn, it's not always safe. Especially if it's a bit wet in spots. True story below is reported by Norval J. Wardle, Iowa State College safety specialist.

"WELL, what are the plans for today? I'd like to get that west corn field laid by." Frank Weber was talking to his son, Harlan, on the phone. They lived on adjoining farms.

"O.K. I'll be right over. I just want to look at the hay in the east barn. There's a funny odor out there," answered his son.

"Oh, that hay's all right. It's been in almost two weeks now. If it were going to burn, it would have done so a long time ago. Besides, it was all dry except for that little in two loads," his father reasoned.

"Well, I just want to check it," said Harlan.

Harlan Weber hung up the phone and was soon walking toward the barn. As he approached it, he looked toward the big door into the barn.

Was that smoke? He looked closer. Then he ran into the barn and quickly went up the ladder to the mow.

Yes. It was unmistakable. There was smoke.

Down the ladder he went and ran for the house. "The hay's on fire," he cried as he burst into the house.

Soon he had called the fire department in the nearby town and told them the hay was burning. Then he called the extension office.

"Hello, Pearson speaking," said a masculine voice.

"Hal, my hay is smoking. I've called the fire department. Is they anything else I can do?" asked Harlan.

"Sure," answered Pearson. "It's outlined right here in the Midwest Farm Handbook. Close up the building. Have the fire department get all set up, but don't use any water unless it bursts into flame. I'll be right out, and I'll bring some carbon dioxide to cool the hay."

The next few hours were quite hectic. But there was no fire. When Pearson arrived, he had a temperature probe. The temperature was found to be almost 200 degrees. A pipe was put into the hay, and the carbon dioxide from the cylinder he brought with him was fed slowly into the pipe. It cooled the hot spot to below 100 degrees.

By that time, many neighbors were present, and the fire truck and firemen were all ready. The farmers then moved the hot hay out of the barn. A lot of work, but there was no fire.

If you have put in any wet hay, watch it.

If there is a burning odor, a noticeable vapor from the hay, or the hay feels hot when you put your hand in it, check with your county extension director. The procedure for checking temperatures and how to control the heat is outlined in the Midwest Farm Handbook.

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Heavy LOADING

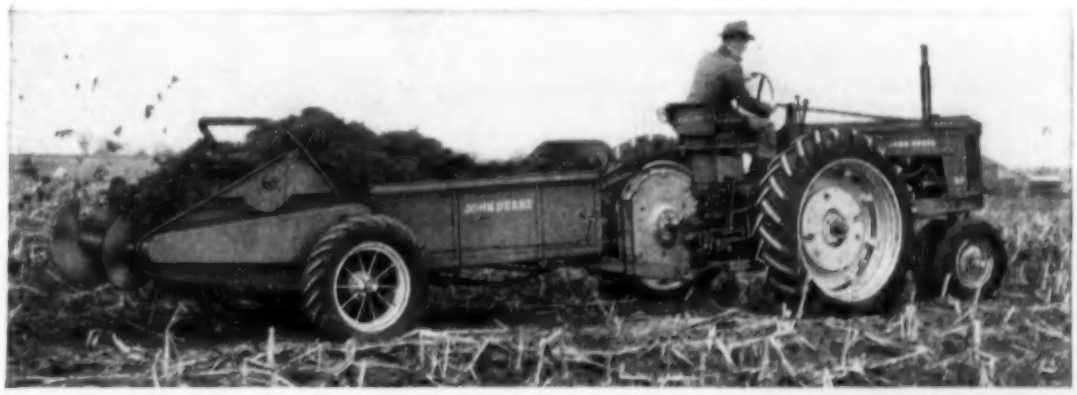
AND

High-Speed UNLOADING

Rugged JOHN DEERE Manure Spreaders

JOHN Deere Manure Spreaders are built to meet the requirements of modern loading and spreading conditions. They can really take the pounding that is dished out from heavy mechanical loading. And, they do good work—giving you a wide, even spread at speeds up to 6 mph.

The big-capacity 120-bushel PTO-driven Model "N," shown above, is designed for large feeders and dairymen who haul a lot of manure and want to do the job quickly and efficiently. Wood sides and bottom to resist manure and phosphate acids . . . angle iron side frames, cross frames, and side braces . . . high quality wear- and draft-reducing roller bearings on the beaters . . . armored steel side-flares and arch-pipe to protect sides and beaters while loading —these and many other extra-value features add up to make the John Deere Model "N" a durable, long-lived spreader that cuts spreading time and cost to the very minimum.



At top of page is the big 120-bushel John Deere Model "N" PTO Spreader. Above is the ground-driven Model "L." Each is an outstanding spreader in its class—each does top notch work under modern conditions.

Model "L" Does Good Work at Low Cost

The regular ground-driven John Deere Model "L" is a quality-built spreader that does good work, at low cost, under hard use. Direct hitch and proper weight distribution insure good traction—even in slick, muddy conditions. Wood and steel construction for longer life . . . simple parking jack for fast, easy hitching . . . and many more features make the Model "L" an ideal spreader on the average farm.

See your John Deere dealer for the spreader . . . PTO or ground-driven . . . that best fits your needs.

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CHET WILLIAMS, of Waukesha, Wisconsin, is co-owner of Wern Farms, one of the country's largest dairy operations. A former vice president of the Certified Milk Producers Association, he is active in community affairs and other farm organizations.

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"Whether I am out on the farm or sitting in the house after dinner," says dairy farmer Chet Williams, *"I enjoy the clean, fresh taste of Luckies. I find this good taste to be consistent."* Many millions of smokers find that Luckies taste better . . . and for good reasons. First of all, Lucky Strike means fine tobacco. Then, this tobacco is *toasted* to taste better. *"It's Toasted"*—the famous Lucky Strike process—tones up Luckies' light, mild, good-tasting tobacco to make it taste even better . . . cleaner, fresher, smoother. So, come light-up time, light up a Lucky Strike. You'll say it's the best-tasting cigarette you ever smoked.

LUCKIES TASTE BETTER

Cleaner, Fresher, Smoother!

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Voice of the farm

"Don't Build Up Republicans"

To the Editor: I generally agree with your fine editorials. But, please, let's face the facts and don't build up the present irresponsible Republicans for the 1956 elections.—"Lincoln Republican," South Dakota.

"You Favor The Democrats"

To the Editor: I like your paper very much. For farmers, it presents a lot of good material. But on the other hand, I do not like the political side. Anybody can see you favor the Democrats. —L. E., Boone county, Iowa.

Here's Comment On Mail Delivery

To the Editor: Some farmers have to walk for their mail, which I do not think is right. Nor do I think it right that we who live in a small town must walk as far as eight blocks . . . also pay box rent.

Don't we pay the same for our stamps and parcel post? Why do larger cities get all the privileges? — L. A., Buchanan county, Iowa.

Not Enough Good Landlords?

To the Editor: In '41, when I had to quit farming to put on "uncle's" uniform, I felt we were fighting for a place in this country, to make a fair living, etc., when and if we came back. What has happened to it?

The family-size farmer and the small businessman are being squeezed slowly, but oh so surely, to death. In case you or your wife haven't a rich relative, you haven't much chance.

This new song, "I want all there is—and then some," sure fits a large percentage of landlords. Don't get me wrong. There are many, many square-dealing landlords. But I have reference to the greedy kind . . . No renter paying some of the rents called for by contracts nowadays can ever get ahead enough to make a down payment on a farm of his own.

Why rent from a landlord that isn't fair and square? Because there aren't enough of the "good" kind to go around.—G.H., Minnesota.

Father Originated Delicious Apple

To the Editor: I was born April 27, 1871, on the Madison county, Iowa, farm of Jesse Hiatt, who is recognized . . . as originator of the Delicious apple. "Uncle Henry" Wallace used to be a frequent visitor in our home.

I am the youngest of the Hiatt family . . . The Iowa Homestead has been our main source of farming information since the 1860's. When we moved to California in 1944, we still took our one source of Iowa information thru Wallaces' Farmer and Iowa Homestead.

We are still farming . . . My sons watch general weather and market reports from the midwest thru the Iowa paper.

I was reared with the Delicious apple tree. And I'm still interested in the old tree. The original tree was killed by the freeze of 1940. But sprouts growing from its roots have been bearing apples for the last six years.—Mrs. Tena V. (Hiatt) Silverthorne, California.

Approves Farm Price Views

To the Editor: I want to thank you for the stand you have taken on price supports. You sure are looking after the farmer's interest. . . Every farmer should take your paper for I know you will continue to work for us. —E. W. R., Effingham county, Illinois.

Tall Corn In "Little Egypt"

To the Editor: The old saying, "Tall corn grows in Iowa," is also true of "Little Egypt" (southern Illinois). Here is a snapshot of my field of corn raised in the Kaskaskia river bottom. It averaged just over 80 bushels per acre.

We enjoy getting your paper, and reading how Iowa farmers operate.—Ed Schmid, Fayette county, Illinois.

"I find so long as I keep busy, retirement hasn't been a problem with me."

"Have To Burn Cornfields?"

To the Editor: I see where the coffee growers are going to burn millions of bags of coffee if they don't get their price. Will we have to burn our cornfields?

This kind of procedure wouldn't make us any profit, but it would certainly keep the railroads and all the middlemen from any profit either. . . I have $25,000 worth of equipment and farm 240 acres, and I can't make a thin dime. So I'm done working for less than peanuts.—C. C., Washington county, Iowa.

Farm In Family 100 Years

To the Editor: One hundred years ago, June 15, 1855, Diederich Schrader purchased from the government of the United States for $1.25 per acre the farm six miles east of Sigourney. I am Diederich Schrader's grandson and am living on and operating the same farm. This farm has never been sold and has always been in the family.

Gently rolling land was most in demand at that time, and timber covered much of the tract with trails here and there. Cattle and hogs for market at first were driven on foot to Burlington, Iowa, a distance of 90 miles. The trip took several days.

Food, shelter and even some clothing were produced on the farm or nearby.—Elmer D. Schrader, Keokuk county, Iowa.

The Schrader farm and Wallaces' Farmer and Iowa Homestead each had its start in the same year. Are there any other family farms with an 1855 date?—Editor.

Another View On S. S.

To the Editor: A recent letter in your paper tells about an old man who took his life because he feared the hardship and rigors of his old age. He left a note pinned to his coat explaining the cause for his act.

Now this letter explains that the writer is glad for social security which might save him from the same fate. I wonder if this letter writer has properly weighed social security. Does he realize it is a discrimination against some old people, while it benefits others? . . .

Speaking of justice, how about our rich ex-presidents who are awarded $22,500 a year and free office space. Do acts like this breed Communism in the USA? —M. McDonald, Blue Earth county, Minnesota.

Now's the Time to **MAKE YOUR PORKERS READY FOR THE PAY-OFF!**

Get Up to $3 Per Cwt. More on Early Markets

GROW 'EM OUT FAST_ with GOOCH'S BEST Super "40" Supplement

SAVE 17 OR MORE HOG FEEDING DAYS. Use this highly fortified grain balancer straight through to market to make your hogs ready 2 to 3 weeks sooner! Gooch Super "40" speeds your hogs to market weight and condition by providing the fast-growth advantages of Aureomycin and Terramycin at guaranteed effective levels . . . plus top-quality weight-building proteins, vitamins and minerals. It helps you **save money** on feed costs—and **make money** on early marketing.

SELL 'EM EARLY at Around 200-225 lbs. to Command Top Pork Prices

YOU REMEMBER LAST SUMMER how well the early hog markets paid, before the heavy runs began. Already, this year, there are strong signs that the early markets will be best. You can help yourself and the hog market, too, by producing the good "meaty" hogs packers want, and by selling them **early**! Let your Gooch dealer show you how GOOCH'S BEST Super "40" Supplement can help you win this important race to early markets.

EACH DAY SAVED PUTS YOU DOLLARS AHEAD!

Speed Your Hogs to Market with GOOCH'S BEST

SUPER "40" SUPPLEMENT

Only ½ to ¾ lb. per Head Daily Balances Your Grain

FROM 75-125 LBS., feed your pigs ¾ lb. of Super "40" per head daily to balance a full feed of grain. After hogs reach 125 lbs., ½ lb. per head daily is all it takes to balance the ration and make your hogs ready early! See your Gooch Dealer today!

GOOCH'S BEST Feeder-Proved **FEEDS** are part of **GOOD MANAGEMENT**

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GOOCH RED CIRCLES ARE VALUABLE

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GOOCH'S BEST — GOOCH RED CIRCLES ARE VALUABLE — COLLECT THEM

For only 1/8¢ per week

per hog you can insure healthier animals and healthier profits!

(Based on the national average salt requirement per hog)

Just that much more is all it costs to feed a hog Morton Trace Mineralized Salt instead of ordinary salt

A healthy hog gains more weight on less feed . . . produces larger, healthier litters . . . and makes more money for you.

To *insure* good health, you should be feeding your hogs Morton Trace Mineralized Salt.

Morton T-M Salt provides the sodium and chlorine your livestock must have, plus adequate amounts of vital trace minerals: iodine, cobalt, copper, iron, zinc, and manganese.

Most farm land lacks one or more of these essential trace minerals. Lack of any one can cause poor health . . . poor reproduction . . . poor weight gain.

Feeding trace minerals with salt is the surest, most economical way to guarantee an adequate supply. Morton Trace Mineralized Salt is inexpensive. All animals like it, will eat it readily every day. When they do, they get the salt they crave, plus the trace minerals they need.

To assure proper mineral balance, build your mineral feeding program around Morton T-M Salt. It's essential to a sound, economical mineral program—whether or not you feed a major mineral supplement. Its cost is so slight—the protection it offers so valuable—it is the only kind you should use.

Just be sure to feed it to your animals free choice. You know they need it. They know how much.

MORTON T-M SALT *Trace Mineralized Salt*

AT YOUR FEED DEALER'S IN BAGS AND BLOCKS

Visits with your vet

What About Detergents For Bloat?

Farmers have been asking many questions about bloat, especially about the use of detergents.

Most of this interest arises from the work of Dr. R. E. Nichols at the University of Wisconson. Here is some information on his research.

1. Dr. Nichols used detergents in blocks and sprinkled on feed in 40 herds (1,400 cows) on Wisconsin farms last year.

2. Results were promising. But one question remains unanswered: Would the animals have bloated without treatment?

3. The detergent must be fed on the animals' feed because palatability is a big problem. Detergent incorporated in salt blocks was not satisfactory. Kind of detergent to feed, the amount and how best to feed it is not known for sure.

4. No detergents can be recommended at the present time to control bloat.

Healthy Pigs Can Carry Erysipelas

A recent test indicates that erysipelas germs can be carried by normal, healthy hogs.

Tests were made in England. In one of the tests, workers found that more than 50 percent of the animals tested were erysipelas carriers.

"Overeating Disease" Found In Hogs

Overeating disease or enterotoxemia in sheep has been a problem of sheep men for some time. Vaccination has relieved this problem.

Now veterinarians are finding this problem in swine herds. It usually attacks fast-growing, well-doing pigs around eight to 16 weeks of age.

Weakness, blindness, lack of coordination, paralysis and occasionally fever are common symptoms. Eyelids, ears, head, anus and stomach walls are sometimes swollen.

No preventive is known. After a purge, the animals that survive gain normally.

When To Breed After Calving?

One of the problems in managing a cow herd is to time the breeding after calving. Here's an experiment that throws some light on the subject:

The experiment involved 252 cows. It was found that the uterus of the cow does not return to normal size and shape until 47 days after calving, on the average. In another group of cows, heat was not noticed until 33 days after calving, on the average.

Older cows were found to need a greated period of time to return to normal. This should be considered in breeding cows after calving.

A good general rule is to let the cow have two heat periods after calving before rebreeding.

Leptospirosis And Stagnant Water

Many cases of leptospirosis in cattle have been observed in low, marshy areas where stagnant ponds and pools are found.

Cattle pastured in such areas should be watched carefully. Sudden deaths or symptoms similar to shipping fever are signs of this disease. Have your veterinarian examine all sick animals at once. Not all animals that die suddenly in the pasture are struck by lightning.

Here's Information On TGE In Pigs

Several outbreaks of acute enteritis in new pigs have been reported in the state. Death loss is high. And this disease is highly transmissible. Here are some facts on TGE (transmissible gastroenteritis):

1. TGE is caused by a virus and will spread rapidly. It affects hogs of all ages, but highest mortality is among pigs under two weeks.

2. Treatment hasn't been successful; altho antibiotics have been used to ward off secondary infections. Usually the treated animals would live despite treatment but respond faster if treated.

3. There is no known vaccine altho several have been tried.

4. Sows may become immune and are safe to breed back for another litter.

5. Continuous farrowing tends to keep the disease on the premises.

6. Sows due to farrow in the next two or three weeks, if moved away from the source of infection, have farrowed healthy litters.

7. To prevent spread of the disease, stay out of other hog houses, and keep everyone out of yours.

"Jones' Chicken Ranch? Go seven chuck holes south; turn west at the tree with the hornet's nest; cross the bridge with the rotten floor, and it's the place with the 'Cross Dog' sign at the gate."

"Instead of putting in a drainage ditch in that low forty, I think I'll stock it with bass."

QUIPS AND QUOTES

THE ONLY WAY to save money nowadays is to have low pockets and short arms.—Schaller Herald.

THE GAL who put pies on a window sill to cool now has a daughter who takes them from the freezer to thaw.—Manning Monitor.

YOU OWE IT to yourself to become successful—after that you owe it to the Bureau of Internal Revenue.—Danbury Review.

WE HAVEN'T heard it yet, but we expect some of these days to hear some good citizen tell how tired he got pushing buttons to run his automatic lawnmower. —Knoxville Express.

WHEN A WIFE insists on wearing the pants, some other woman may be wearing the fur coat. —Lake Mills Graphic.

THE FOLKS who are in clover are not the ones who let grass grow under their feet.—Paton Portrait.

THE REASON some men are misunderstood is that they possess nothing worth studying. —Sioux Rapids Bulletin-Press.

WAITING FOR a lucky break wouldn't be a bad policy if pay days weren't so uncertain.—Grand Junction Globe-Free Press.

IMPOSSIBLE FEAT: Keeping the mind and the mouth open at the same time.—Lake City Graphic.

ROSE-COLORED GLASSES are all right if you take them off once in a while to clean them and look the situation over.—Kossuth County Advance.

A BACHELOR is a man who is crazy to get married, but knows it.—Walnut Bureau.

JUST BECAUSE it is a well-beaten path is no proof that it is the right one.—Schleswig Leader.

AND THEN THERE was the girl who soaked her strapless evening gown in coffee so it would stay up all night.—Ogden Reporter.

Talk about TONNAGE!

Nothing beats this smooth-running outfit!

- **WD-45 Tractor with 2-clutch power control.**
- **Forage Harvester for high-capacity field chopping.**
- **Forage Blower for fast silo filling.**

Match your Allis-Chalmers Forage Harvester with this Big-Capacity Blower. Handles grass or row-crop silage, chopped hay or grain. Rubberized belt conveyor.

When your crop is at its maximum tonnage for good silage, your own Allis-Chalmers Forage Harvester outfit can make money for you every minute.

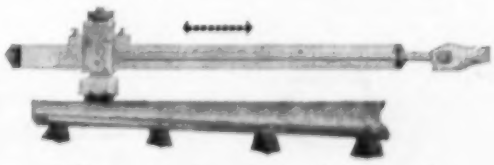
You can put more loads safe in your silo before sundown than ever before. It's done economically with tractor *power take-off* . . . and 'way less labor.

This Forage Harvester walks right through rank crops. The WD-45 Tractor's dynamic engine delivers power to spare with the fuel of your choice — gasoline, L-P gas, diesel . . . drives the Forage Harvester with tonnage-eating steadiness.

At the silo — load after load delivered in a heavy stream by the curved, power-saving blades and big 9-inch pipe of your Allis-Chalmers Blower will give you a new conception of how fast silage can move.

Before you buy, get the money-saving facts about this low-cost, big-capacity forage team from your Allis-Chalmers dealer.

Shear-and-Throw . . . in one motion!
That's how the spiraled and cupped blades of the 3-foot-wide Forage Harvester cylinder cut and deliver heaviest tonnages with less power.



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SLIDE-LOCK ATTACHMENTS let you quickly interchange from row to grass crops. Windrow pickup is quickly mounted on the grass attachment. One machine chops hay, silage and bedding. Side or rear delivery available.

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"There's nothing like Woven Wire Fence and AMERICAN tops 'em all."

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"AMERICAN FENCE stands up well in this country. I buy about 1000 to 2000 rods at a time. It has given me real service."

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AMERICAN FENCE is the farmers' favorite for many reasons. Most like it because of its extra long life, its ability to stand up under severe weathering without losing its tension. Others like the hinge-joint construction and the heavy galvanizing that protects the full gauge line and stay wires from rust and corrosion.

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Look for the American Fence trademark the next time you buy, whether you're in the market for steel fence posts, poultry netting, barbed wire or steel gates. An investment in "American" products is an investment in dependable, trouble-free service for years to come.

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AMERICAN STEEL & WIRE DIVISION, UNITED STATES STEEL
GENERAL OFFICES: CLEVELAND, OHIO
UNITED STATES STEEL EXPORT COMPANY, NEW YORK

UNITED STATES STEEL

Summer hand on the D. R. Wessels farm in Butler county, Iowa, is Jules Diekman, high school student from nearby Kesley. Diekman does chores and some field work.

Young folks can help a lot

A BOY to help with chores is a mighty handy asset on any farm.

Permit him to accept responsibility. Give him encouragement. If he does a job well, let him know you appreciate his efforts. Praise can mean more than money to the lad who's learning.

While R. Wayne Freel of Washington county, Iowa, was busy in the hayfield, 11-year-old Dick Freel removes staples and wire from fence posts. Fence was to be moved back to make room for road-widening project.

Milking time on the Russell Emerson farm in Winneshiek county, Iowa. And 13-year-old Stanley Emerson goes to work on the herd of 20 Jerseys. Modern milking parlor makes the job easier than it might be otherwise.

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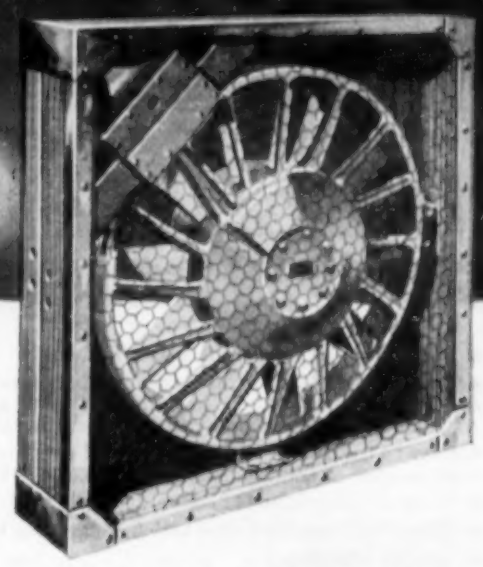
How to boost hay and grain profits with DELCO CROP DRYERS

DELCO DAYTON OHIO



Get more milk or meat, higher cash prices!
Tests show that beef cattle gain faster and cows produce more milk—when fed high quality dryer-cured hay. Feed grain is also more nourishing when harvested at the proper stage of maturity without waiting for field drying. If you sell for cash, you get premium prices—more U. S. No. 1 grade—for dryer-cured grain and hay.

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You can get crops safely under cover days earlier, if you own a Delco Crop Dryer. You can save shatter losses, too, by handling while moist. Farmers equipped with Delco Crop Dryers have saved as much as 2 bushels per acre of small grain, as much as 25% of valuable hay leaves, that might otherwise have been left in the field.

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Why wait to join the crop drying trend? The Delco packaged Crop Dryer is simple and inexpensive, pays for itself fast because it does many jobs well. Motor-in-the-hub design eliminates belts, pulleys, tricky adjustments; mounts in any position in any building; hooks to any rural power line. Easily moved from hay mow to grain bin to off-season barn ventilating or other jobs. See your Delco Farm Dealer now. No investment ever paid off faster than a Delco Crop Dryer.

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Don't wait for disaster! Don't wait until a storm knocks out hy-line power for your chick brooders, your milking machines, your water pumps and other essential equipment. Get power insurance now with a Delco Farm Generator. Operates from any tractor belt or power take-off drive. Easily moved for off-line field use.

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- Recommended for fly control by USDA.
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- Quickly effective.
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Every dollar spent on malathion buys maximum fly control!

Get all the facts now. Consult your local agricultural authority. Write to American Cyanamid for free leaflet.

Malathion insecticides are available from well-known manufacturers. See your regular supplier. Be sure to look for MALATHION on the label.

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Felco Fed for more than 12 years is the feed record on the farm of Frank Stearns of Webster City. High quality ingredients mixed fresh every day at competitive prices are only a few of Stearns reasons for sticking to FELCO. And, he gets co-operative savings too at his own Farmers Cooperative.

Wallace-Homestead Poll

Retired farmer Ed Bremer of Osceola county, Iowa, wants to stay on his farm. Maintaining and repairing buildings, fences, etc., around the farm gives him plenty to do.

When you retire

Where would you prefer to live? What about income? Spare time?

"WHEN I retire, I expect to do nothing but fish and eat," says a middle-aged Mahaska county Iowa farmer.

To a lot of folks, that idea sounds pretty good. But when you get down to brass tacks, there's more to retirement than fishing and eating. Retirement even brings some problems.

What'll you do with that leisure time? What'll you use for money? Where are you going to live?

The Wallace-Homestead Poll questioned several hundred Iowa farm folks on those subjects. Here's what we learned.

First question: "When you retire, where do you want to live?" Here's how answers stacked up:

	Men	Women
On the farm	48%	40%
Small town	42	47
Larger city	10	13

Men were slightly more inclined to stay on the farm than women. But cities don't hold much attraction for most farm folks.

"Big cities are for young working people," declares a middle-aged farmer in Cherokee county. "A small town is where I want to retire—where it's peaceful and quiet. I want to know my neighbors and be friends."

Answers to the next question indicated that most Iowa farm folks—83 percent—want to stay in Iowa after retirement.

About seven percent hope to retire in California or the Southwest. And about two percent in Florida. Seven percent named some other state. But less than one percent want to retire in a Corn Belt state other than Iowa.

"If Iowa is good enough to live in all these years, it's good enough to retire in," declares an older farmwife in Clay county.

But a young Mahaska county farmer says he wants to retire "as far away from Iowa and hard work as I can get."

Next question: "How do you plan to get enough money to live on when you retire?"

Own farm, live off rent	56%
Part time work	15
Manage own farm with hired help	7
Social security and savings	23
Other	11

Answers total more than 100 percent because some folks gave two answers.

Final question: "Which of the following do you expect to spend more time on when you retire from farming?"

	Men	Women
Travel	57%	36%
More church and community work	14	33
Develop a non-farm business	14	4
Work on special hobbies	31	35
Other	17	6

Men wanted to do more traveling than women. And women leaned heavier toward church and community work.

But an older Kossuth county woman remarked: "I want to do a combination of all those things. Just the things I haven't had time to do."

An Iowa county woman remarks: "I would be happy if I could find time to quilt all I want to."

And a middle-aged Bremer county farmer comments: "I couldn't retire with nothing to do. I think I'll develop a business of some sort."

First Aid for Stock

Should Bred Gilts Follow Cattle?

To the Editor: A fellow told me that if bred gilts follow feeder cattle, they will not have good litters. Is there anything to this?—H. R., Appanoose county, Iowa.

There is no evidence to show that gilts following feeder cattle will not be good mothers or that their pigs would not be normal. In fact, it has been found that they have larger litters than normal if the gilts receive a balanced ration.

If any pigs are abnormal, it is not from consumption of cattle droppings.

Meat Safe After Hogs Recover

To the Editor: Is meat from hogs all right to use after the hogs have recovered from erysipelas and are fattened? Ours are eating well but are a little stiff yet.—J. S., Knox county, Illinois.

Thousands of hogs that have or have had erysipelas have been slaughtered for human consumption. If the organism does exist in the meat, it is easily killed during cooking.

One of the hazards of butchering such hogs is that humans may contract a disease called erysipeloid. This is a skin infection. Meat should be well cooked. During butchering, see that blood from the animals does not contact cuts on hands.

Progress Reported On Atrophic Rhinitis

Results of research on atrophic rhinitis in hogs have been encouraging, reports Dr. W. P. Switzer of the Veterinary Medical Research Institute at Iowa State College.

Three different control measures are being tested to see which is most effective in breaking the chain of infection. Tests indicate that the disease can spread without direct contact by pigs.

Atrophic rhinitis should not be confused with the more common infectious rhinitis or "bull nose". Bull nose does not spread from hog to hog and is caused by the same germ that causes foot rot in cattle. Bull nose often can be treated successfully. But there is no known cure from atrophic rhinitis.

Side screens on tractor engine are optional equipment.

New!

FORD MOUNTED CORN PICKERS

Farmers themselves wrote the specifications for the new Ford Mounted Corn Pickers.

Some said, "Give us mounted pickers that are easier to attach." Others asked for pickers that would do good work in sappy or dry corn . . . clear themselves of stalks better . . . shell less corn . . . remove husks cleaner . . . pick faster in heavy yields . . . operate easier.

All these advantages and many more have been built into the new advanced Ford Mounted Pickers. The result is a new, higher level of picker performance never before available in *any* picker.

So stop in and look over all the features that put the new Ford Mounted Corn Pickers in a class by themselves. Your nearby Ford Tractor and Implement Dealer will be glad to tell you more. Tractor and Implement Division, Ford Motor Company, Birmingham, Mich.

ONE ROW—fits all Ford Tractors. Easy for one man to attach—takes less than an hour—no heavy lifting. Fully mounted, hydraulically controlled. Highly maneuverable. Also available . . . One Row Mounted Corn Harvester, One Row Pull Type Corn Picker, One Row Pull Type Corn Harvester.

Ford's Amazing New
CORN SAVER SNAPPING ROLLS
Cut Shelled Corn Losses in Half

Unlike other pickers! Ears drop off to the side rather than riding *on* the rolls where wasteful shelling occurs. Sure-grip rolls also reduce shelling and clogging. Tests show shelled corn losses are cut in half!

Ford Farming

GETS MORE DONE . . . AT LOWER COST

A good cook, Mrs. Chester Warren, Decatur county, Iowa, keeps her favorite cookbook handy when she plans and prepares meals. Year old Melvin looks on.

Every region has fine foods

Duncan Hines must have a swell job. Think of getting paid for eating good food all over the country. On the other hand, even Mr. Hines must occasionally run into eating places he can't recommend.

On a recent vacation, I experimented with "Hush Puppies" in a small town in Mississippi. They were simply delicious, but perhaps I ate too many. Anyway the next couple of days I was glad I wasn't Duncan Hines or anyone who has to eat for a living.

There is an interesting difference in recipes and food preparation over the country. Food in Minnesota differs greatly from that produced in Mississippi. Yet both areas produce delicious meals.

Many cookbooks are produced by each region over the country. And while a lot of the recipes are similar, occasionally you run into one that is entirely different.

Take the cookbook called "Country Flavor Cookbook" by Haydn S. Pearson, Greenfield, N. H. ($3.50). This cookbook is as readable as it is practical. Mr. Pearson fills in the spaces between the recipes with spicy philosophy. His recipe for "Blueberry Grunt" reads like a story, yet makes every woman who likes to cook want to try it for supper. It goes like this:

BLUEBERRY GRUNT

Grease a quart sized casserole. Place in it three cups of blueberries and a cup of sugar. Cover this with a baking powder biscuit dough. A cup of flour as a rule is adequate. Set the dish in a kettle of boiling water, covering about half the depth of the dish. Cover the casserole, and steam for an hour. Serve with a nutmeg sauce made of one teaspoon nutmeg, one half cup sugar, two tablespoons flour all mixed together. Add and stir in one cup boiling water and one tablespoon butter.

A heaping cereal dishful of it, with plenty of sauce, and you will grunt with solid satisfaction.

In eastern Kentucky, I picked up a cookbook called "The Southern Cookbook" compiled by Lille S. Lustig, Clair Sondheim, and Sarah Rensel, Culinary Arts Press, Reading, Pa. ($1.50).

This cookbook contains over 300 old Dixie recipes that "have made southern cooking famous the world over".

Take the recipe for Roast Duck. The by-line says "Never believed anything could taste so good." It goes like this:

ROAST DUCK

Prepare, and clean a duck as you would any fowl; rub with salt and pepper. Take two tablespoons ground ginger, and rub on both the inside and out. Peel one onion, and into this stick four cloves and place on the duck. Place in a roaster, and add one cup water. Roast, basting often. Add water when necessary. Stuff duck with bread, apple mushroom dressing. The gravy should be highly seasoned, and a tart jelly may be added at the last. Serve with baked oranges.

A cook book that appeals to my heart is one called "To Make My Bread," published by the Museum of the Cherokee Indian, Cherokee, N. C. ($1.00).

The book is illustrated by photographs of Indian women preparing some of their ancient but still used foods. Aggie Lossia, grand-daughter of chief John Ross, tells how to make bean bread "just like my granny made it when we lived in that cave on the Tennessee River."

Aggie's recipe for bean bread would take a lot more fortitude than most of us would want to expend, but it makes interesting reading. In these days when there is a lot of interest in out-door cookery, you might try this Cherokee recipe for barbecued meat.

BARBECUED MEAT

Cut meat into small blocks or strips. String these pieces on a sharpened stick. Place before a hot fire. Turn often until meat quits dripping. Remove the meat from stick. String it on a bark thong or bear grass, and hang before or above the fireplace for future use. When ready to use this meat, it may be made into a stew just as it is. Or it may be pounded in the corn beater until soft, then cooked as a soup.

Then to go entirely modern every woman who cooks for her family and for guests should own a copy of "What to Cook for Company" by Lenore Sullivan. It is published by the Iowa State College Press, Ames, Iowa ($4.00).

Every recipe in this 500-page book is practical and easy—a product of careful testing. No woman is ever in doubt about what to serve when she has this book on her shelves.—Z. M.

Homemaking Today

Edited By ZOE MURPHY

Recipe for a hot day . . .

Terry, Louise, Virginia and Ronald cool off in their own private swimming pool. They are the children of Mr. and Mrs. Vernon Nordby, Shelby county, Iowa.

Homemaking Helps

WHIP UP PAINTS for your toddler out of laundry starch. Just mix the starch with water to the right consistency for starching clothes. Then separate the mixture into as many parts as you want different color paints. Add a different food color to every batch, and thicken the mixtures by stirring in some soap flakes. This kind of paint can't hurt washable fabrics or surfaces.

REDUCERS SHOULD keep in mind that no one food is fattening. You gain weight when you eat more than your body needs, no matter what foods are eaten. Extra calories, not the kind of food, add those extra unwanted pounds.

WHEN MAKING CUSTARD PIES, always heat the milk. It then requires less time to bake, and the crust is not apt to be soggy.

A TABLESPOON OF AMMONIA added to a quart of water makes a good solution for washing windows.

TO REMOVE CARROT SKINS easily, drop them in boiling water for five minutes. Drop in cold water and slip off the skins.

WHEN CLEANING A TOASTER or any other appliance in which the coils are exposed, the current should be disconnected by removing the wall plug from the socket, and the appliance should be cool.

A QUICK AND EASY DESSERT can be made by combining a can of strained applesauce with a pint of stiffly beaten cream. Season generously with ground cinnamon. Pile high in dessert dishes, and grate bitter chocolate over the top. Chill until icy cold.

FOR A BREAKFAST LOAF. When making bread, roll out the dough for one of the loaves. Spread generously with butter, and sprinkle with one-half cup sugar and one-half teaspoon cinnamon mixed. Roll up, and pinch the dough together. Then let rise until doubled in bulk, and bake. Frost top of loaf with powdered sugar icing while warm.

MEAT LOAF BAKES faster in a tube cake pan than in a loaf pan.

TO SAVE HEATING the oven on hot summer days, bake shortcake in an electric waffle iron using a rich drop biscuit batter.

YOU CAN RESTORE left-over biscuits and muffins to freshness by splitting them, spreading with butter and toasting under the broiler.

CHEESE is an excellent source of protein. One pound of American or cheddar cheese supplies one and one-half times as much protein as one pound of lean meat.

WRINKLES WILL FALL OUT OF VELVET if the dress is hung over a tub of steaming water for a few minutes. When it is dry, lightly brush the nap of the fabric upward.

TO CLEAN a badly discolored waffle iron, use a wire brush on the grids while they are hot. After cleaning, rub with a little vegetable oil and store.

WASH YOUR LIGHT COTTON gloves just as soon as they begin to show soil. Dirt left in glove materials becomes difficult to remove.

DON'T PACK YOUR PICNIC lunch in the trunk of the car during hot weather unless it is adequately refrigerated. The trunk is too warm in the summertime for transporting unrefrigerated foods.

Good news for PRE-CHORE coffee lovers!

FOLGER'S BRINGS

FULL FLAVOR

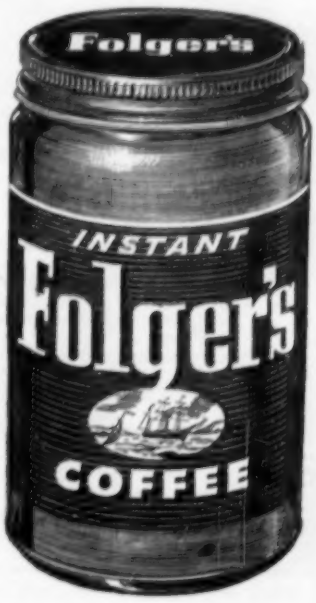
TO INSTANT COFFEE

Now . . . before you tackle the chores . . . treat yourself to the full flavor of Instant Folger's. Here is full, rich flavor never before achieved in an Instant Coffee! So quick! So easy to make! And so richly satisfying!

The secret? Folger's starts with only the finest, most flavorful Mountain-Grown coffees. They blend and prepare them by a special new, years-ahead process that captures and brings to you *all* the goodness . . . *all* the true rich flavor of these naturally finer coffees.

Try new Instant Folger's Coffee . . . with meals and between . . . here's full flavor you can enjoy *all* day, *every* day.

AT YOUR GROCER'S IN CONVENIENT 2, 4 AND 6-OUNCE JARS



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Listen! Snap and you'll be 3 times glad

The first "glad" comes when you hear the loud snap that tells you: you've got a tight seal . . . those built-in latex rings are solidly gripping the jar rim.

The second "glad" occurs should you fill jar too full, or a bit of food adheres to rim . . . or a tiny gully develops—SNAP goes the lid! Up comes center to warn you in time to check and recan.

The third "glad" is when you see the firmness of your fruits and vegetables . . . when you taste the flavors that have been guarded by that exclusive THIRD coat of food-acid resistant enamel.

That's why you'll ALWAYS be glad when you can with BER-NAR-DIN!

Snap **Lid Snaps down!** You've got a high vacuum.

Snap **Lid Snaps up!** Check jar rim and re-can.

69c JAR LIFTER for only 25c and a Box Top from BER-NAR-DIN Snap Lids. Lifts hot jars; prevents burned hands. Send Box Top and 25c to: BER-NAR-DIN, 2201 West Maryland St., Evansville 12, Ind.

BERNARDIN *Home Canning* **CAPS AND SNAP LIDS**

It's safer to use SNAP lids!

OOPS! Get Hi-lex in the picture quick!

Mishaps happen! Luckily, there's a sure, quick cure. Just reach for Hi-lex Liquid Bleach . . . the wonderful product that deodorizes and disinfects as it bleaches! Dilute according to directions . . . swish . . . odors disappear . . . stubborn spots and stains quickly vanish. Always ask for Hi-lex . . . with magical ingredient "X".

BLEACHES...*Instantly!* **DISINFECTS**...*Safely!* **DEODORIZES**...*Magically!*

12 Jumbos from any size roll developed 25c, with this ad only. G. SKRUDLAND, LAKE GENEVA, WISCONSIN

SEND WOOL to us for FINE BLANKETS. Free information. West Texas Woolen Mills, 441 Main, Eldorado, Tex.

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With this Ad, One 8 Exposure Roll developed, 2 Dated Prints of each negative . . . 30c Same offer with 12 exposure roll . . . 50c. Finest Quality Over Size Prints.

SNAPS 1 Day Service! Guaranteed Satisfaction. Box 440-K LaCrosse, Wisconsin

Cash income on a farm is irregular. Like many other young farm wives, Mrs. Einer Nissen, Audubon county, Iowa, keeps a close check on account books.

What's wrong with farm living?

Young farm wives say that farming is wonderful, but—

This article by Christine Hillman, Ohio State College, is the result of a recent study on "Problems that appear to be most common among young farm wives."

If this study were to be made in Iowa, would the problems be the same? What do you think?

COUNTRY living hits the spot with most young farmers' wives. They like the life, and don't want to be any place else.

Every new wife may have her problems, but a farm wife's problems seem to be knottier, according to this study.

For instance, these young farm wives say, "How can you pursuade baby sitters to journey miles to care for children so that you can have a day off?

"What do you do when there is an emergency call for the doctor and he can't take time to drive to the country?"

Finances play a greater role in their lives, and understandably so. Cash income may be irregular and often, the young wives feel, not large enough to provide satisfactory family living during the early years of marriage.

Farm machinery and livestock necessary to establish the husband in farming can take a big chunk out of whatever funds are available. These frequently must take priority over furnishings and equipment for the home.

Moreover, these are the years when the babies are arriving, there is extra work to do and household conveniences are badly needed.

When indebtedness is incurred the women appear to worry more than the men over weather conditions, changing farm prices and other possible hazards. In the back of every woman's mind is the fear: What if the crops fail?

It seems, too, that farm boys are increasingly marrying nonfarm girls. In the study, approximately one out of every three homemakers interviewed had been born and reared in a town or city.

This means that one out of every three young farm wives must make a rapid adjustment to new social and physical surroundings as well as learning to operate a household and to bring up children.

Those homemakers complain, too, about their husbands' lack of understanding relative to a homemaking schedule. In the words of one wife:

"I've worn out the bottoms of all cooking utensils pushing them on and off the stove while trying to keep food warm and waiting for my husband to come in for meals."

Loneliness is a problem especially where families have moved into a new community. "In order to find a good farm to rent, we had to move clear across the county," one homemaker said. It takes a long time for older and more established families to really accept newcomers into their community.

Another thing that bothers these young farm women in Ohio is that in renting farms they must concern themselves more with the character of the soil and buildings than the condition of the house in which they must live. Old houses, lack of modern conveniences, poorly arranged rooms are very real problems.

Despite obstacles and problems, most of these women have put their roots firmly into the ground. In spite of discouragements, all want to succeed as homemakers.

IRONING TROUBLES—Mrs. Russell Shupe tries to iron flanked by daughters Donna, 6, and Diane, 18 months, in her farm kitchen in Audubon county, Iowa.

Country air

EVERY year many things become 100 years old—houses, communities, customs, even people. This is true particularly for communities that began with the history of the commonwealth and continued thru a century of common interest. There are centennial picnics, pageants, pantomimes, parades and a sort of pioneer pomp in memory of the people who have built their lives in one geographical spot.

* * *

Our little eastern Iowa town of Wyoming began its civic history 100 years ago, when the land was laid out in townsites—the land that they bought for $14 an acre. A few years earlier, the first little band of settlers struck camp on the west side of Bear Creek. This little band of "four stalwart men, three brave women and seven helpless children" established homes, planted crops, walked 30 miles to a preaching service and buried a child.

* * *

And of course before that, we were thrown open to the history of all that was covered in the name of Iowa—the explorations of Marquette and the missions of Joliet, the trading of territory because of the wars of France and England, the Spanish exploration, the Louisiana purchase which made our county worth approximately five cents an acre, the period when it was part of the territory first of Michigan and then Wisconsin.

* * *

Before that were all those awesome ages when the soil was being formed by upheaval, erosion, ice ages, and the coming of animal and vegetable life. After all, it takes more than 100 years to form a county or any other piece of geography. However, it's the 100 years that records human history that interest us most.

* * *

The human history of our little home town has been the story of a simple uncomplicated way of living—a little handful of history in this great country of ours. Like hundreds of little Iowa towns that people have lived in and loved, it has been marked by birth, marriage and death—events that come to most every one. There have been no world shaking historic events—not even Indian warfare. Ragged begging Indians followed their worn trails peacefully westward.

* * *

The railroad came (and still runs a train a day). A couple of fires spelled disaster temporarily. The main street was paved, and the livery stable gave way to garages and oil stations. Shakin' ague gave way before quinine and improved diet. Lung fever and "epizootics" gave way to ulcers and high blood pressure. Even polio is curable with new miracle vaccines. Sulphur and molasses were superseded by penicillin and vitamins.

* * *

Hired girls gave way to the automatic washer. The village seamstress gave way to the mail order catalogue and shopping trip. The ox cart, horse and buggy and Model T made room for multi-colored cars and high powered motors. We sleep on innerspring mattresses instead of straw ticks. Wild crab apples boiled in sorghum 'lasses is more work than factory-made jelly.

* * *

Thru the founding years, the growing years and the war years, the people and the names changed, but their virtues and their faults were the same. The things they worked and played with changed: First oxen, now tractors; then the husking bee, party games, lyceum and Chautauqua; now radio and television.

* * *

But thru it all, there's the tremendously moving story of human beings and their adjustment to progress. Probably no one ever lived to their fullest in our little town, but the history of all the struggles and efforts and relaxations total up to 100 years of the warmth of human living.—Elizabeth C. Wherry.

Baby in the House?

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is a wonderful help to Mother!

Babies need a lot of hot water and an automatic Philgas water heater supplies all you need . . . at the turn of the faucet! It brings city convenience right into your home, for just pennies per day! Philgas is the fast, *thrifty* way to heat water automatically!

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Your Safety Is in Your Hands! National Farm Safety Week, July 24-30.

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FARM GIRLS know what animals make safe pets. Sharon Gissible, Cass county, Iowa, cuddles a lamb. The lamb seems to like it, too.

Safe vacation on the farm

Farm woman tells how she keeps visiting children from trouble

WE WERE always pleased when our town friends came out to the farm to see us. That is until they started having children.

Then as time went on we felt almost compelled to erase "hospitality" from our assets when some of the children invaded the farm. Bill's blood pressure went up, and my nerves found new twitches to do.

Once when our little friend David wanted to see the hen house, he forgot to close the door.

The hens got out and picked and pecked and trampled our beautiful vegetable garden into a "nothing to do but plow it under" condition.

Jeannie was intrigued with the last sow to farrow, and was just climbing over the fence to pet the mean creature when Bill intercepted her.

I'll never forget the day when naughty Louis knocked the separator off the stand in the milk house and bent the discs beyond repair.

Or the day when I chanced to look out the kitchen window and saw the tractor jump. Becky was trying hard to stretch her little legs so she could touch the starter again.

There were other incidents too. All making us feel thankful that our friends were able to take their children home in one piece.

When spring came again and friends began driving out from town, Bill and I had a talk.

"We've got to make the children stay away from danger and keep our friends too," Bill said with finality. "But when we take away the taboos we should replace them with 'to-do's' . . . like we do with our children."

So I compiled a list of the not-to-do's and stuck it on the bulletin board in the kitchen. Next, with the help of our two children, we worked out a list of things to do and rounded up the equipment needed.

I typed a second message and put it on the bulletin board too. It read:

Anyone disobeying these "Not-to-do" rules will be penalized by not getting a tractor ride, and will not be taken to see the livestock. But here are things you will have fun doing:

1. Gather cobs and wood for the outdoor fireplace. We'll have a marshmallow roast.
2. There is a basketball net and a ball at the corn crib. It takes a lot of practice to make baskets. Want to practice today?
3. Old spoons and pots and pans for the youngest set may be found under the maple tree at the southeast corner of the yard.
4. There is a tire swing for you to use on the big tree near the house.
5. Our orchard is the best place we know for a good game of hide and seek.
6. You can find the prettiest stones in the shallow creek at the west of the orchard. Do you like to take your shoes and stockings off and go wading? Here's your chance!

As the season progressed we added more things to do, like picking berries and peaches, etc.

We learned that our friends were relieved to know how, when and where their children could have fun when they came to the farm.—Mrs. Wm. Witter, Illinois.

-- FREEZERS --

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Attractive summer dresses

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Nos. 8064 and 8065. Darling pinafores in look-alike fashion. Patern 8064 is in sizes 10, 12, 14, 16, 18, 20. Size 12, 4⅛ yards 35-inch. Pattern 8065 is in sizes 3, 4, 5, 6, 7, 8, years. Size 4, 1¾ yards 35-inch. Two patterns, 30 cents each.

No. 8228. Try a dainty border print, or bright solid, for a girl's party dress. Sizes 3, 4, 5, 6, 7, 8 years. Size 4, border print, two yards of 35-inch; ¼ yard contrast.

No. 8105. Perfection in fitting for the shorter figure. Sizes 12½, 14½, 16½, 18½, 20½, 22½, 24½. Size 14½, 3⅞ yards of 35-inch; ⅝ yard contrast.

Patterns are 30 cents each, coin preferred. You'll want to order the new Spring and Summer Fashion Book. It costs 30 cents. Address your orders to Pattern Department, Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa.

EVEN THE BABY gets his afternoon snack in the attractive farm kitchen belonging to Mrs. Urban Neppel, Crawford county, Iowa.

Cookery corner

Vanilla Refrigerator Pie

- 1 envelope unflavored gelatin
- ¾ cup cold water
- 1½ cups milk
- 3 tablespoons sugar
- 3 eggs separated
- dash of salt
- 1 teaspoon vanilla
- ½ cup chopped nuts
- 3 tablespoons sugar
- 9 inch graham cracker pie crust
- ½ cup heavy cream, whipped
- ¼ teaspoon vanilla
- ½ square bitter chocolate

Soften gelatin in cold water. Beat milk, three tablespoons sugar, egg yolks, and salt together. Cook over low heat until mixture coats a metal spoon, stirring constantly. Add gelatin. Chill until mixture begins to thicken. Stir in one teaspoon vanilla and nuts. Beat egg whites until they stand in soft peaks; gradually beat in remaining sugar. Fold into custard mixture. Pour into pie crust. Combine whipped cream and ¼ teaspoon vanilla. Spread over pie. Shave bitter chocolate over top.

Chicken Salad

- 4 cups cooked chicken
- 2 teaspoons chopped onion
- 1 cup chopped celery
- 1 cup minced green peppers
- ⅔ cup cooked salad dressing
- ¼ cup light cream
- 1 teaspoon salt
- 2 tablespoons vinegar

Cut the chicken in bite sized chunks. Combine with the onion, celery, and peppers. Mix cream and salad dressing, salt, pepper and vinegar together. Toss with the chicken. Refrigerate until ready to serve.

Fruit Salad Dressing

- ½ cup sugar
- 1 teaspoon flour
- 1 egg yolk
- ½ cup pineapple juice
- 2½ tablespoons lemon juice
- ½ cup whipping cream

Mix sugar, flour and egg yolk together in a double boiler. Add pineapple and lemon juice, and cook until thick, stirring constantly. Cool. Fold in whipped cream.

Lemon Sherbet

- 1 envelope unflavored gelatin
- ⅓ cup cold water
- 1 can frozen lemonade
- 2 cups milk
- ¼ cup sugar
- 1 cup cream whipped

Sprinkle the gelatin over cold water in a measuring cup to soften. Stir over hot water until gelatin dissolves. Combine lemonade concentrate, milk, sugar, and gelatin, and beat well. Turn into ice cube tray. Freeze until practically firm. Turn into a chilled bowl. Beat with electric beater. Add whipped cream, and beat well. Return the mixture quickly to the ice-cube tray. Freeze until just firm enough to spoon out, then reset temperature control.

Porcupine Meat Balls

- 1 pound ground beef
- ½ cup rice
- 3 tablespoons chopped onion
- 2 tablespoons chopped parsley
- ¼ teaspoon garlic salt
- 1 10½-ounce condensed tomato sauce
- ½ cup water
- ½ bay leaf crushed

Combine beef, rice, onion, parsley, garlic salt, salt and pepper. Mix thoroly and shape into small balls (one inch size). Place in a quart casserole.

Combine soup and water, and pour over meat balls. Add the bay leaf. Cover, and bake in a moderate oven (350 degrees) for 30 minutes. Uncover, and bake 20 to 30 minutes longer.

You'll love these dainty
Wm. Rogers Silver
COFFEE SPOONS

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To acquaint more folks with the delicious flavor of wonderful Butter-Nut Coffee we are making this special offer for only a limited time. We are sure you will love this set of 6 elegant coffee spoons. Genuine Wm. Rogers International Silverware. And think of it—only $1.00 and the unwinding strip from one can of Butter-Nut Coffee for these spoons that would cost you $2.95 or more in most stores.

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You will be happy to have the coffee spoons—and you will be even more glad that you discovered Butter-Nut, the Coffee Delicious. We say, no other coffee is so good. We honestly believe that. Try it, we are sure you will agree.

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by Lucina Ball

LET'S MAKE THIS A RECORD YEAR FOR SAVING—AND START WHERE SAVINGS ARE BIG. CUT FOOD COSTS! Save those extra vegetables and fruits from garden and orchard, those meat extras usually given away. There are recipes in the Ball Blue Book you've probably never tried. Enjoy greater variety later by putting up greater variety *now*.

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BERRIES (Cold or Raw Pack)

Make light or medium sirup. Wash and drain berries. Pour about ½ cup hot sirup into hot Ball Jar. Fill jar with berries. Shake jar to pack berries closely without crushing. Add more hot sirup, if needed, to cover berries. Close jars with Ball Dome Lids. Process 20 minutes in boiling-water bath.

This method of canning berries for pies, sauces, muffins, etc. is excellent for all kinds of berries **except strawberries.**

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Slow Down and Live

Ants that camp in pantries

Find out where they come from, then go after them

IF ANTS have picked your pantry for their camping grounds this summer, you won't like it.

Reading about them won't solve your problem. But here are some suggestions that may help you find out where they're coming from. Then you can go after them.

If ants seem to be coming from the outside, look for nests along sidewalks, driveways, foundation walls or under porches.

When you've discovered nests, put insecticide into the openings. Then drench with water from the hose. This will wash the insecticide down into the nests.

You can control ants with chlordane. You won't find it sold under that name, but the label will tell you if the product contains chlordane. You can buy it at most any drug or hardware store.

Chlordane will prevent reinfestation for weeks or often months after you've used it. For outside spraying, use the water base insecticide. For indoor treatment, use the oil base, as it becomes almost invisible.

Some women prefer to apply the insecticide with a paint brush for treating indoor areas. This takes more time, but it gets into cracks and crevices.

To keep ants from coming into the house, apply a two percent solution to the outside walls from the ground up to the windows. Also to the lower part of the window frames. It's a good idea to spray underneath porches and any supporting posts that ants may use for a runway.

Finding ants' nests indoors is quite a job sometimes. They nest in walls, between floors, beneath cracked cement floors in basements, and in rotting house timbers.

But, as you know, ants aren't the only warm weather problem when it comes to bugs.

Bugs get into the flour and cereals. To control these pests, clean all the pantry shelves thoroly and spray them with five percent DDT. Store foods in tight containers.

By spraying the inside of cupboards with five percent DDT, a deposit of crystals will remain after liquid has dried. These crystals will remain effective for several months and will kill any insects before they have had a chance to lay eggs.

This treatment of shelves will have no effect on any bugs inside packages, so inspect all food packages carefully. It is best to put foods of this type in covered containers, once packages have been opened.

For silver fish, fleas, bedbugs and flies, a light application of five percent DDT solution in deodorized kerosene is recommended.

Carpet beetles and moths are a constant worry to many housewives. They do a lot of damage to untreated woolens.

Keep rugs clean by removing lint, hair and dust with a vacuum cleaner. Then spray with DDT, also using it along the baseboards.

To store clothing in a closet, brush everything thoroly. Wash or dry clean anything that is the least bit soiled. Paper garment bags have no value unless the clothing is absolutely free from moths when they are put into the bags. Then properly sealed, clothing will be protected indefinitely.

Summer special . . . . .

ICE CREAM topped with home grown fruit makes a fine summer dessert. Vernetta Nissen, Audubon county, Iowa, takes a package from the freezer.

If it weren't for brand names

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The most complicated piece of equipment in the American home is a television set.

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No matter what kind of a product you're buying, you know you're right when you buy a good brand. You know the manufacturer will stand behind it because his reputation is at stake. You can depend on a good brand.

The more good brands you know, the fewer buying mistakes you'll make. Get acquainted with the good brands in these pages and get more value for your shopping money.

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10 & 50-lb. Bags

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ASH GROVE Snowflake HYDRATED LIME

WESTERN as a HOE-DOWN!

THE BLACK HILLS OF SOUTH DAKOTA

In South Dakota's storied Black Hills, where Calamity Jane, Wild Bill Hickok, Deadwood Dick made frontier history, you'll find color authentic as a 10-gallon hat. See the crackling western action at rodeos, square dances, real Indian conclaves. Relive historic days of the Old West. *This summer,* plan the time of your life—plan *your* vacation in the Black Hills of South Dakota.

SOUTH DAKOTA STATE HIGHWAY COMMISSION
H. O. Pankow, Publicity Director, PIERRE, SOUTH DAK.

Records are the key to poultry profits, many successful poultrymen say. Shown are Mr. and Mrs. Earl Norton, of Shelby county, Iowa.

The farm flock

Control Poultry Lice And Mites

Three new chemical insecticides will control poultry mites. They are malathion, lindane and aramite. Sprays of malathion and lindane will also kill poultry lice at the same time.

Aramite and lindane have been approved for use in poultry houses. Earle Raun, extension entomologist at Iowa State College, says approval of malathion is pending.

To use, spray walls, ceilings, nests, roosts and litter of the poultry house. Raun recommends using one gallon of the proper mixture per 1,000 square feet of area in the house.

Raun recommends the following mixtures of the three insecticides:

Malathion—Mix one part of the 50 percent malathion concentrate to 49 parts of water.

Lindane—Mix one part of the 20 percent concentrate in 19 parts water.

Aramite—Mix two tablespoons of 15 percent wettable powder in one gallon of water.

Confined Hens Lay More Eggs

Hens that are "cooped up" all summer will produce better than chickens that roam over the farm, says Gerry Annin, University of Wisconsin poultry specialist.

The keys to good summer egg production are: Plenty of water, a constant supply of mash with grain and good laying house ventilation.

Confined hens will give you cleaner eggs, and there won't be lost nests behind the barn or under the strawstacks.

Hens that stay in the laying house need more floor space. Figure about two and a half to three square feet per bird.

Leave as many doors and windows open as possible in hot weather. Annin says the best temperature for laying hens is 55 degrees. While that low a temperature usually isn't possible in July and August, hens will stay cooler in a well-ventilated laying house than outside.

Water is cheap so provide your hens with plenty of it. Make sure the feeders always contain mash. If hens run out of mash, they'll try to make up for it by eating grain—but then they don't lay as well.

Provide hens with plenty of nesting space. And watch for lice and mites which grow most rapidly in the summer months.

High Production—More Profit

Hens that laid an average of 225 eggs each paid their owner a labor income of $2.86 each. But hens that laid an average of 124 eggs each had a labor income of only 22 cents each. These are results of a three-year study based on Missouri poultry records.

Flock size has some influence on egg profits. Flock owners who had 100 to 200 layers had a labor return per hen of $1.76. But flock owners with 500 or more layers had a labor return of $2.87 per hen.

Poultrymen who keep the smaller flocks seem to get lower prices for their eggs. The Missouri study shows that owners with 100 or less layers got an average of 41 cents per dozen for eggs. Owners of flocks of 500 or more averaged 49 cents per dozen.

Built-up litter also influenced egg prices in the study. Layers on built-up litter showed a labor return of $2.17 each. And an average egg price of 46 cents per dozen.

But for layers on non-built-up litter, the labor return per hen was only $1.76, and the average egg price 41 cents per dozen.

ROLL-AWAY NESTS for turkeys are now available. The nests should reduce the number of dirty and cracked eggs. Turkey hens must learn to use the roll-away nest. So it is important to get such nests installed before they start to lay.

For better egg production *worm with*

DR SALSBURY'S WORMAL GRANULES or TABLETS

The most effective* POULTRY WORMER *of them all!

Wormal, with exclusive drug *Butyworate,* removes *more* of these worms that burden your birds and sap egg production: *Cecal Worms, Tapeworms, Large Roundworms.* Wormal is easy on layers and young birds, too.

convenient—economical

Ask for feed containing Wormal or get palatable Wormal *Granules* to mix in your feed; for individual treatment buy Wormal *Tablets.* One extra egg per bird pays for a worming. Prevent losses due to *recurring* worm infestation. Start a regular Wormal worming program NOW!

DR. SALSBURY'S LABORATORIES • Charles City, Iowa

When you need poultry medicines, ask for

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YOU MAY HAVE PIN-WORMS AND NOT KNOW IT!

Fidgeting, nose-picking and a tormenting rectal itch are often telltale signs of Pin-Worms . . . ugly parasites that medical experts say infest *one out of every three* persons examined. Entire families may be victims and not know it.

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First—a scientific coating carries the tablets into the bowels before they dissolve. *Then*—**Jayne's** modern, medically-approved ingredient goes right to work—*kills* Pin-Worms quickly and easily.

Don't take chances with this dangerous, highly contagious condition. At the first sign of Pin-Worms, ask your druggist for *genuine* **Jayne's P-W Vermifuge** . . . the small, easy-to-take tablets perfected by famous Dr. D. Jayne & Son, specialists in worm remedies for over 100 years.

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Storm ROL-AWAY NESTS

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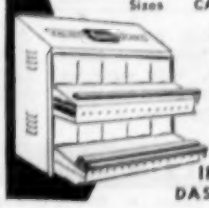

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Sadie Stouffer Hatchery, Waddams Grove, Illinois

White Pekin Ducklings—25, $8.00; 50, $15.50; 100, $30.00. Roupn—25, $10.00; 50, $19.50. Postpaid. Schockel's Hatchery, Springbrook, Iowa.

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"The Danuser Driver is a wonderful time saver. I'd recommend it to anyone."

Donald Slater

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For information write to
ROWELL, INC.
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ST. PAUL, MINN.

Watch hogs for excess finish when they get about this size. Packers say 85 percent of market hogs are too fat for consumers.

How judge your market hogs?

Packer expert describes type and finish for best market hog prices

IF YOU'RE a hog raiser you need to know something about judging hogs. You have to buy breeding stock. And you need to know when hogs have enough finish to sell at highest prices.

The hog standards you're looking for are the ones used by packer buyers. You want to win their approval and get top price.

So let's see what a meat packing official says a barrow should look like. And how he sizes them up.

"When I judge a barrow," says Carroll Plager of Hormel & Company, "I want to see him walk 20 or 30 feet away from me. I associate a confident, effortless walk with abundant muscling just as I do in an athlete.

"The distant view permits an accurate appraisal of the entire barrow. This is important because the final vote needs to be cast for or against the whole hog, not just a single part."

But Plager is interested in three general views, some of them closer up. They are the side, front and rear view in that order.

The side view, he says "reveals more than length of side. . . it also shows trimness of jowl and middle, depth of side, strength of top, length of rump and depth of ham."

Now what should you look for in the rear view? Width of ham. Also depth of crotch, and both width and shape of back.

This close-up view reveals the degree of finish. The loin-edge turn and tail attachment mean a lot as to how fat the barrow is.

"A counter-sunk tail is a fat warning signal", says Plager. "The turn at the edge of the loin should be natural and graceful. . . Such loins yield bigger pork chops."

Front view of the barrow reveals desirable spring of rib, fullness of loin, width of chest and blend of shoulder with side." This end of the hog is least valuable, but it gives evidence of the qualities of his other parts.

What are the dimensions for a model barrow? Thirty-inch side and one and one-half inch back fat depth. Plager says, however, that meat type hogs can vary an inch in length and one-tenth inch in back fat depth and still be good.

"The hog raiser has more reason than the packer to insist on a 30-inch side." Medium length means more to production profits than to carcass value.

Some long barrows, up to 31-inch sides, may have excellent hams and loins. And some short hogs have neither good hams or loins, says Plager. So you can't use length alone in judging the lean meat value of a hog.

Correctness of finish is not as well understood by most hog raisers as is the ideal type.

"More barrows miss the honor roll in shows and at the market because of too much fat than for type shortcomings," says Plager.

And this may be surprising: "Eighty-five percent of the barrows coming to market carry more finishing than you and I want our porks to have.

"Fortunately, excess finish is the easiest weakness to correct. The sad truth is, too little is being done about it."

So it appears that the main thing you can do now to win the top market price is to sell those spring pigs before they get overly fat.

But at the next breeding time, keep or get sows and boars with good loins, hams and generally good muscling. That's the kind that have a high percentage of lean meat if not fed too long.

NIGHT PASTURES are important for dairy cattle. Virginia studies show that percentage of cows actively grazing reached a high peak immediately after both morning and night milkings. Steers grazed most heavily from four to eight a.m. and from six to eight p.m.

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Grain Bins

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THE FARMER

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GREATER PROFITS

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- *LIFE-TIME SERVICE*

It's like putting money in the bank to store your grain in EATON'S ALL-STEEL GRAIN BINS . . . all-steel from floor to roof. EATON BINS protect your grain from loss and damage due to weather, fire, rodents or theft. They won't rot or warp or get out of shape. Convenient features of this bin include: removable door panels to prevent spillage . . . sacking spout . . . combination ventilator and elevator-fill opening with walkway . . . removable roof section for shovel filling . . . heavy angle iron anchor straps.

EATON BINS COME IN THE FOLLOWING SIZES: 1,000, 1,350, 2,200, or 3,300 bushel. Get full details on this life-time protection for your crops.

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YOUNG FARMER

who is experienced, progressive, hard working and who wants to operate an Iowa farm and help build a successful large farming operation. No money or machinery required. Start March 1, 1956. Prefer Iowa State College graduate. Give references, experience, age, etc.

Write Box 34, Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa.

Rural Route Ramblings

By R. F. D.

THE DAILY PAPERS have greatly disappointed me the past week or so—hardly a word about Eddie Fisher and Debbie Reynolds. Believe me, the daily report on this romance was really fascinating—just like a crochet tournament.

ABOUT THE ONLY things which could tear me away from such breath taking reporting of vital news would be a lively session with the "Complete Scores of Upper Southwestern University's Badminton Team for 1897" or a thrilling romp thru the "Revised Ordinances of the Town of Clean, Miss. (1902)."

NO KIDDING, is that news? After the first six months?

I PREDICT, exclusively for this publication, that both will probably marry and possibly more than once. But not each other. And I hope that ends the matter.

AFTER A YEAR off for good behavior, I once again trekked to camp this summer. The youngest boy is at it now. About the only difference I could see was that I am two years older, and it was that much harder on me.

WE AGING cub scouts in going thru our senile paces out in the wilderness many times turn out to be "pills" rather than "pals" to our boys!

SPEAKING of age, my wife has a brother who is nineteen. Irritating as it is, there are many people that young. And even younger! He was describing somebody who, according to him, was very, Very ancient.

"WHY," HE SAID, with a feeling of real pity in his voice, "he must be all of 40!"

NOW I HAVE BEEN (and will be) practically 40 for a year or so. I painfully creaked from my wheelchair, grabbed two canes with trembling hands and hobbled out to the front porch, there to mutter and mumble in my white beard.

I THINK I had better go lie down for a couple of days. We ancients must take it easy!

"All in favor of having our picnic here, raise your right hand."

. . . 'Stilbosol' Digest . . .

Albert Arth, Troy, Illinois, tops market. Gets big daily gain with 'Stilbosol.' Mr. Arth put 46 head of steers on a supplement with 'Stilbosol' as soon as it was available. Their starting weight averaged 850 pounds. After a full feed for 82 days, these steers averaged 1155 pounds. Mr. Arth reports that his steers averaged 3.7 pounds gain per day for the time they were on a supplement with 'Stilbosol.'

Albert Arth
Troy, Illinois

"These steers topped the market at the East St. Louis yards and sold as choice grade to a major packer," relates Mr. Arth. "I was well satisfied with the results of 'Stilbosol' feeding and certainly intend to use it in the future. 'Stilbosol' came along at a good time. I needed those extra, lower-cost gains to make a profit this year."

Use of 'Stilbosol' is widespread. Less than six months after introduction, shipments of 'Stilbosol' were being made to feed manufacturers in 40 states. Cattle feeders have been quick to appreciate the extra gains and lower costs of gain as well as the excellent carcass quality of cattle fed 'Stilbosol.'

Sell more pounds of high-quality beef. Since cattle fed 'Stilbosol' gain more rapidly, they'll finish out at heavier weights. As before, cattle should be finished to usual grade for best prices. Feed your cattle for the same length of time as you did before using 'Stilbosol' and sell more pounds of quality beef.

Carcass tests show value of 'Stilbosol.' Comparison tests conducted by various feed manufacturers show that 'Stilbosol' produces excellent carcass results. Here are facts from such a test comparing shipping shrink, dressing percent, selling price and carcass grades:*

	Controls	'Stilbosol'
No. Steers	10	10
Ship. Shrink	4.41%	3.44%
Dressing %	60.4	59.8
% of farm wt.	57.7	57.7
Sold per cwt.	$23.50	$23.50
USDA Grades—Choice	7	8
USDA Grades—Good	3	2

In this test, cattle getting 'Stilbosol' made extra gains of 22.6% at a 14.4% savings in feed cost. Cost of gain was 2¢ per pound less in the 'Stilbosol' lot.

Cattle feeders reporting other benefits from 'Stilbosol.' In addition to faster and more economical gains, veteran cattle feeders tell us that their cattle are quieter, stay on feed better, and have a better appearance when 'Stilbosol' is used in the ration.

*Manufacturers' name available on request.

(For further news about 'Stilbosol' watch for "'Stilbosol' Digest.")

Stilbosol

(Diethylstilbestrol Premix, Lilly)

Lilly

HERE IT IS!

THE NEW GRAIN-O-VATOR 10

Grain-O-Vator, the recognized leader and originator offers a new low priced Grain-O-Vator The GOV-10 is designed to handle bulk materials quickly and efficiently and at low cost. Compare these features. Steel cut, case hardened gears running in grease—All steel—full "V" box for complete unloading—No chains—no parts exposed—Heavy duty axles and hubs—8" elevating auger, unloads up to 30 bushels per minute.

DODGEN AND COMPANY
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NOW! A MODEL FOR EVERY POCKETBOOK AND NEED

GOV 10 GOV 20 GOV 30

NEW FARM WAGON

Heavy duty, 73" tread. Short turn Cor-Ten steel I axles built for 12' barge.

Combination wagon and 5' lift **$198.50**

Wagon with hinge less cylinder **$170.50**

Immediate supply limited — Prices subject to change

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Falling Water Level?

If you're using a shallow well now, but may need a deep well soon, ask your Dempster Water Systems Dealer about . . .

DEMPSTER

Convert-o-jet

The Water System that works in both shallow and deep wells at the price of *one* pump!

- ✓ Complete jet system for either deep or shallow wells.
- ✓ Cost-free conversion—everything furnished, except the well pipe.
- ✓ Thrifty ½ HP delivers up to 600 gals. per hour.
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- ✓ So compact it fits under your kitchen sink.

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"There's Money in Running Water." It describes Dempster's complete line of Farm Water Systems.

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Please send me your new Dempster Water Systems Book "There's Money in Running Water." (Also Free Convert-O-Jet Folder.)

Name_____

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City_____ State_____

He'll take a few days vacation inside Iowa. For a longer vacation, he'd prefer northern lake country. Lewis Peterson, of Muscatine county, Iowa.

Time off for farmers

More than two out of five Iowa farm families to take vacations, Poll shows

HOW many Iowa farm people will take vacations this year? For how long? Inside or outside Iowa?

And if Iowa farm folks could get away for two or three weeks, where would they like to go?

Interviewers for the Wallace-Homestead Poll put those questions to a representative sample of Iowa farm people. First question was:

"Did you take, or are you planning to take, a vacation this year?"

Yes	43%
No	57

Age made no difference in vacation plans. But larger farmers (180 acres or more) were a bit more inclined toward a vacation this year.

"I always plan to take a few days fishing every summer," said an older Cherokee county farmer. "Life's too short not to have a little pleasure once in a while."

But a Webster county woman replied: "I've never had a vacation . . . only when I was in the hospital. I would like to visit relatives in the East that I have not seen for years."

Next question asked by the Wallace-Homestead Poll was: "How long will you take for your vacation?"

	20-34	35-49	50 and over
A few days	54%	55%	22%
A week	33	25	30
More than a week	13	20	48

Totals were: A few days, 42 percent; a week, 29 percent; more than a week, 29 percent.

As you might expect, older farm folks were better able to get away for more than a week. Owners also planned more and longer vacations than renters.

The Poll also inquired: "Are you taking a vacation in Iowa or outside the state?"

	20-34	35-49	50 and over
In Iowa	46%	20%	24%
Outside Iowa	54	80	76

Totals figured like this: In Iowa, 29 percent; outside Iowa, 71 percent.

Then Iowa farm men and women were asked where they would like to go if they could get away

(Continued on next page)

Fishing is a favorite pastime for Glenn Kronemann of Worth county, Iowa. He's taking a week vacation this year outside of Iowa.

Have You Tried The NEW PROCESS?

by Henry Arthur

OCCASIONALLY I still get mail from feeders inquiring about 36% Linseed Meal as compared with the "old process" or 34%.

Well, just how does the "New Process" compare with the "Old Process", anyhow? For years, linseed oilmeal has been the first choice of all supplements for cattle and sheep. This is due to such advantages as high protein and phosphorus content, palatability and its unequalled reputation for putting "bloom" on animals in the fattening pen.

Solvent Extracted 36% Meal has been compared with old process 34% in experiments at many colleges. This is how they stacked up:

Palatability: Both meals equally good for dairy cattle (Wisc. and Ohio tests); for beef cattle (Iowa, Nebraska, Colorado tests); for lambs (Nebr. and Minn. tests).

Absorptive Capacity: Water absorption is directly related to laxative characteristics. Solvent meal absorbs water equal to 8 times its volume; old process meal absorbs water equal to 6 times its volume.

Bloom: Iowa, Nebraska and Colorado experiments show that Solvent Process Meal is fully equal to old process meals.

Phosphorus: Both meals are equally good sources.

Protein: Solvent Process Meals 36%; old process 34%. Two pounds more protein in every bag of Solvent Meal!

These factual data make it clear that nothing is lost through Minnesota's Solvent Extraction Process, and there are some important gains. *Next time ask your dealer for Minnesota 36% Linseed Meal. You'll be glad you did!*

Minnesota Linseed Oil Co.
Minneapolis 21, Minnesota

Hotchkiss The strongest wagon equipment ever offered to a farmer!

HOTCHKISS STEEL PRODUCTS CO. Dept. I-R Bradford, Illinois

MAKE BIG MONEY
BE YOUR OWN BOSS!

CUSTOM GRIND FEED FOR LOCAL FARMERS

● Build your own good-paying business with an IOWA PORTABLE MILL. Pays for itself quickly out of profits.

One of strongest, most famous on market. CONTINENTAL RED SEAL ENGINE. Hydraulically lifted feeder. 3 Sizes.

Write today for circulars and details

IOWA PORTABLE MILL CO.
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MORE & MORE PEOPLE ARE LOOKING INTO

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- THREE PLANS. 1. Complete materials furnished, above foundation. 2. Erect on your foundation. 3. "Whole package." Build foundation and erect complete.
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AND THEY'RE LOOKING INTO

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CRIBS and BINS

(For Over 46 Years)

- CRIBS—500 to 2650 bu. As low as 29c per bu.
- BINS—500 to 4500 bu. As low as 13c per bu.
- The top quality line for over 45 years

Write for factory prices. Dealers invited, too. Address—

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DEPT. W-7 WEST DES MOINES, IOWA

THE BACHTOLD MOWER *Does more Jobs*

IT MOWS
Cuts fence rows, fields and lawns. Clears away undergrowth. Works equally well on flat or hilly terrain.

IT CULTIVATES
Replaces four separate garden tools! Cultivator attachment works most any kind of soil including rocky ground.

IT SAWS
Big 20-inch blade can be used in either horizontal or vertical position. Stand keeps blade off ground.

Write for Free Information—Dept. W

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BACHTOLD BROTHERS, INC.
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COUNTY EXTENSION DIRECTOR

Major oil company has unusual sales opportunity for a young man with county extension experience. Must be aggressive, own car, not over 35 years of age and willing to travel and transfer. Excellent opportunity for advancement and usual company benefits. Mail full particulars to P. O. Box 734, Des Moines, Iowa.

AMERICA'S NO. 1 TRACTOR HEATER

Heat-Houser

SEE YOUR DEALER

FREE to cattle feeders!

This 16-pg. feeding booklet outlines tested feeding procedures—illustrates lot layout and bunk construction—points out important features of mechanical feeding equipment. Write for your free "MECHANICAL FEEDING" by Farmhand

The FARMHAND Company
Dept. 446 Hopkins, Minn

One week is the vacation time for Mrs. Eugene Kreft, Sac county, Iowa. Pacific Coast would be her choice for a longer vacation.

(Continued from last page)

for two or three weeks. The question was this:

"Let's suppose you have a completely reliable neighbor to do your chores. Where would you go for a two- or three-week vacation?"

	Men	Women	Total
Pacific Coast	29%	37%	33%
Rocky Mountains	19	19	19
Northern lakes	23	9	16
East	13	20	17
South	16	15	15

Both men and women put a visit to the Pacific Coast at the top of their list. The Rocky Mountains drew a steady 19 percent vote.

But when it came to vacationing at the northern lakes, farm men and women really disagreed. Nearly one-fourth of the men wanted to head north for fishing, less than one-tenth of the women.

Not all women dislike the lake county tho. A young Webster county woman said, "Fishing is my favorite pastime. I'd love to go way up north and get some good ones."

A young Winneshiek county farm wife chose the Pacific Coast saying, "Even tho I was there once, I didn't see it all."

And all the choices looked good to a Louisa county farmer. He said, "I'd hate to put down any one, for I'd like to go in any direction. West if strictly for sight seeing. North if for fishing. Or East to visit people we know. Or if for a grand vacation . . . Europe."

Hoppers In Your Garden?

Don't try to kill grasshoppers in your vegetable garden by spraying with the insecticides that normally are recommended for control of hoppers on field crops.

That advice comes from insect control experts at the University of Missouri. They say those chemicals are too potent to put on vegetables that you plan to eat.

Use of poison baits is the only safe method of killing hoppers in the vegetable garden, they say.

A LONG FACE and a broad mind are rarely found under the same hat.—Lake City Graphic.

"I Get Economical, Fast Cooling - and NO FROZEN MILK!"

says CLETUS GOEDKEN
Monticello, Iowa

DARI-KOOL

BULK MILK COOLER

Model shown is DKS-250 (250 gallons)

Also available in 100-, 150-, 200-, 300-, 400-, 500-, 600-, and 700-gallon sizes.

It Costs Less to Cool Milk With a DARI-KOOL

No other cooler can match Dari-Kool's fast cooling and year-after-year low operating and maintenance costs. Milk is cooled to 38° in one hour. Dari-Kool never freezes milk because the milk is cooled with ice water. You can clean your Dari-Kool with hot water without damage. Rugged, bulge-proof construction assures accurate milk calibration. Units are ready to operate — nothing else to buy or install. Get the facts and you'll get a Dari-Kool!

- **DARI-KOOL LEADS IN SALES** — More dairymen buy Dari-Kool than any other cooler.
- **DARI-KOOL LEADS IN VALUE** — Dari-Kool tanks are built of stainless steel — inside and out (Not painted black iron)
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Pictured above is the Strawmaster attached to a Minneapolis Moline combine. Models are available for all popular makes of combines.

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Straw Problems

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Models available for both large and small combines

Now is the time when you need the Strawmaster! You return the straw to the soil as valuable humus . . . no more raking . . . no more burning. The Strawmaster shreds the straw and spreads it evenly over the field so that you can plow right after combining. Write your nearest distributor for free literature and complete information.

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NOW A Complete Line Of VICTOR PESTICIDES

THE CRETE MILLS . . . CRETE, NEB.
Division of Laukoff Grain Co.

Research Points

TINTED auto windshields cut visibility, according to a University of California worker. Visibility distances were cut nine to 15 percent by different commercial windshields, he reports. Reduction may be up to 50 percent when it comes to picking out an object from a matching background. This becomes particularly dangerous at night, the study shows.

FOREST FIRES caused $3,700,000 damage during 1954. That's the estimate for our national forests. Nearly half of the fires were caused by human carelessness.

STREAMLINING could cut truck fuel bills, according to University of Maryland tests. For example, covering the space between cab and trailer would cut wind resistance about 25 percent.

MAYBE YOUR dairy heifers can get by with less grain. United States Department of Agriculture specialists say heifers often get up to 2,000 pounds of grain from birth to time of first calf. Tests showed that heifers can make satisfactory growth on no more than 500 pounds of grain. High quality forage can be substituted for part of the grain.

POLES USED for framing farm buildings should be set three and a half to five feet into the ground. Holes two and a half feet deep proved unsatisfactory. That's according to Oklahoma agricultural engineers. For best protection from high winds, they recommend anchoring poles in concrete below the surface of the ground.

ANTIBODIES to all three types of polio have been found in blood serum of cows. Antibodies are substances which protect against a disease. Other domestic animals showed few, if any, of these antibodies.

NEW DRUGS to control influenza and common colds look like a good possibility sometime in the next few years. Influenza virus was completely stopped from growing in recent test tube experiments. Chemical used to control the virus is closely related to a number of compounds that could prove helpful.

"Yoo hoo, dear! Are you still mad at me?"

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STALK SHREDDER

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Second Year Straight
NATIONAL CORN PICKING CONTEST
1954 FIRST PRIZE
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MINNESOTA
(rubber & cord)
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Pumps 3,600 GPH, 450 GPH 80' high; or 1,800 GPH from 25' well. Use 1/6 to ¼ HP motor. Coupling included free. 1" inlet; ¾" outlet. Stainless shaft. Won't rust or clog! Postpaid if cash with order. MONEY BACK GUARANTEE.
Lobawco Pumps, Belle Mead 1A, N. J.

MASSEY-HARRIS 16-Foot COMBINE
For sale. Bought new late last fall.
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Most salesmen are honest and sell good products. But a few are out to get all the money they can. You come out loser in such deals.

Don't let 'em get your money

Watch out for the "fast buck artist" who hurries you into signing a check

HOW long has it been since you were offered a super-duper oats that would out-yield anything the experiment stations have?

How many days since someone has driven in your yard and offered to inspect your septic tank? Or paint your barn? Or sell you citrus fruit direct from Florida? Or sell you genuine oriental rugs right off his truck?

If you haven't had any callers like those lately, don't congratulate yourself too soon. The next fellow that turns in your drive will probably have an extra special deal of some kind for you.

It's hard to keep track of all the rackets being worked on Corn Belt farms each year. But these fast-talking crooks must find some takers each year because each summer finds them coming back.

The problem is that most salesmen who call on you are honest. They work for a living just like you.

How can you protect yourself? One way is to resist any efforts to hurry you.

Hold onto your money until you're sure the salesman has something you need.

A Better Business Bureau office gives these reasons why people are hoodwinked out of their money:

1. Many people do not have a basic knowledge of merchandise and services and therefore don't recognize fraudulent offerings.
2. They fail to "Investigate before they invest."
3. They believe they have a legal right to change their minds after purchasing, and to obtain a refund of the purchase price or deposit, or to make an exchange.
4. They sign contracts without reading or understanding them.
5. They believe that they can buy merchandise at wholesale prices failing to realize that no concern can do a retail business at wholesale prices.
6. They fail to consider whether claims are reasonable, and fail to get important claims in writing.
7. They do not obtain bids or even estimates in writing, before authorizing work to be done.
8. They fail to check the reputation of salesmen before buying or placing orders.
9. They do not determine whether statements which have been made agree with the facts.
10. They fail to obtain legal advice before buying a home or some other major expenditure.
11. They accept promises or predictions of the future as statements of facts.

How can you avoid the fakes that are out to get as much of your money as possible? The Des Moines Better Business Bureau gives these nine suggestions:

1. Deal only with firms which are reliable.
2. Be sure the salesman represents the company he claims to represent.
3. Don't sign papers before you understand all terms and conditions of the sale.
4. Before you sign, be sure that the name and address of the firm is printed on the contract.
5. If promises are made verbally, be sure that they are represented in writing in the contract.
6. Keep a copy of the contract.
7. When you are satisfied that the job is completed, only then should you sign a completion certificate.
8. Pay your bill by check or money order made out to the firm. Don't pay cash to a salesman.
9. Compare prices with those of other firms.

Soil conservation planning is an important part of farming to these three men. Above is Howard Krebs, farmer near Zearing, Frank Mendell, State Conservationist of S.C.S., and Bill Hitt, KIOA Farm Director, discussing Howard's plans for the Krebs farm.

Farmers—Businessmen—Farm Service Groups . . .

. . . All are coming to rely more and more on the Farm Interest Programs which are so important to KIOA.

County Agents, Home Demonstration Agents, the Soil Conservation Service, Extension Service, Agricultural Schools, F.F.A., 4-H and other farm groups have shown their interest in these farm broadcasts.

It is our desire to build programs of even greater interest . . . to satisfy the radio needs and wants you have indicated. You like our programs . . . and we appreciate your interest.

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to get the most from every feed dollar see your

local FEED man

he is in business to help YOU with YOURS

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FOR SALE: John Deere Implement business (low inventory, factory-trained men available). Including complete field seed and limestone equipment. 300,000 yearly gross sales. Only building (brick) on city block. Railroad siding. Southeastern Illinois. Box 25, Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa.

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2. Rinse with dilution of 1 ounce Hi-lex to 2 gallons water. Don't wipe off.
3. Keep water disinfected with ½ ounce Hi-lex to gallon of water.

Safe! Sure! Hi-lex is a tested and approved disinfectant and deodorizer!

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Buy the CASE

Grade A farms are Hi-lex Clean

DISINFECTANT — SANITIZER — DEODORIZER

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DELPHI, INDIANA OR ALTAMONT, KAN.

EXTRA MONEY in spare time sharpening farm discs. $20 to $25 daily profits. No dismantling—no moving. Simple machine sharpens whole disc right on farm. Free Plan. Write today.
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McCulloch CHAIN SAW Heavy Duty Model

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20 years ago,

They stopped blowing land

Does U. S. land program of thirties have lessons for today's Dust Bowl?

This spring, dust storms raged again in the Southwest. In many quarters, this question arose: "Why doesn't the government buy some of that land and seed it back to grass?"

During the 1930's the federal government bought eroding land from some farmers and helped resettle them elsewhere. The land went back to grass.

Since then this land has been used for grazing by nearby ranchers. But always under government supervision.

How have these land-buying projects worked out? Recently, Wallaces' Farmer and Iowa Homestead sent managing editor Lee Thompson to look at a federal land project in central South Dakota. Here is his report:

IN CENTRAL South Dakota, west of the Missouri River, the U. S. government holds title to some 115,000 acres of land, most of which was formerly under private ownership.

This land was bought up during the thirties. The U. S. paid prevailing prices and usually had to pay some delinquent taxes.

What happened to the people who had homesteaded and farmed this land? The Resettlement Administration helped them move and get another start in life—sometimes in farming, sometimes in city life.

The land went back to grass. In many cases, reseeding was necessary. But that was only part of the picture. Proper and careful grazing management was needed to restore this land to its former productivity.

In charge of each federal land project is a project manager. I found Harlan Omodt, manager for the Fort Pierre land project, in the Stanley county courthouse in Fort Pierre. Born in North Dakota, Omodt is a graduate of Montana State College. There he specialized in range management.

Omodt explained how the land project was operated. "This land isn't leased," he said. "Grazing permits are granted by the local district."

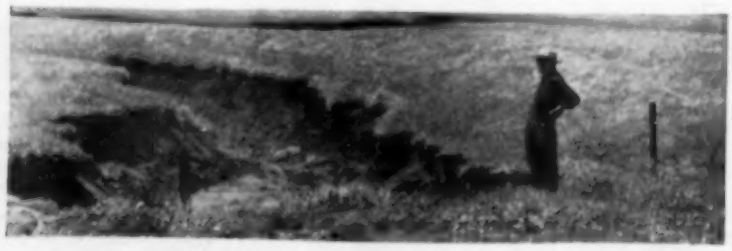
"North of Pierre, I deal directly with ranchers because they have never formed a grazing district. South of Fort Pierre, I deal with the Central South Dakota Cooperative Grazing District, Inc.," he explained.

"Charge is 43 cents per cow a month," Omodt went on. "This is reduced five cents to organized grazing districts since the grazing district handles the administrative expenses. Charge is changed annually depending on the average price of beef cattle during the preceding 12 months."

"How do you decide who is entitled to graze cattle on a certain piece of land?" I asked.

"Prior use and commensurate property are the basis for pref-

(Continued on next page)



Pictures above and below were taken from same spot in road. They illustrate what proper range management can mean. Cattle in above pasture keep banks of ditch trampled down. Land shown below is used as hayland. Ditch is broad, smooth, covered with thick grass.

New seeding of crested wheat grass is checked by Harlan Omodt (right), project manager, and cattleman Mark Thompson. Scene is on the Ft. Pierre, So. Dak., federal land utilization project.

(Continued from last page)

erence in allotting grazing permits," Omodt replied. "If a ranch changes ownership, grazing permit preference usually goes along with the ranch."

It is Omodt's job to decide how many cattle can graze on a given area. Some of the pastures are big—8,000 acres—and cattle belonging to several different ranchers may run together there.

Some areas are set aside for hayland. Omodt decides how often hay can be cut. He decides when reseeding is needed.

When local ranchers organized the grazing district under state laws, the boundaries included a lot of privately owned land. For members of the grazing district, Omodt sets grazing numbers that are allowed on **privately owned land** that is used in common with government land. A rancher must abide by grazing limits set on his own land as a condition of obtaining grazing permits on government land.

If a member of the grazing district objects to Omodt's decision, he can appeal. Arbitration is handled by a board of directors elected by members of the grazing district.

How do ranchers in the grazing district feel about the project? I talked to a director of the grazing district, A. J. Williams, retired rancher of Fort Pierre, who has been in that country since 1918.

"I opposed this government land buying and resettlement at first. Then later I thought I'd just wait and see how it turned out. Now I think it has been successful," Williams told me.

Williams sees the Fort Pierre land project as giving surety and stability to ranchers.

There are fewer people living within the boundaries of the project now than 20 years ago. "But," says Williams, "the ones left operate economic units."

"When I first started," Williams points out, "I could get help by hiring neighbors who milked a few cows and barely made an existence."

You can find businessmen in Fort Pierre and in Pierre who think the federal land project has been good for the community.

Many of the farms and ranches of 20 years ago were too small. They were neither good producers nor good consumers.

The ranchers who remain, tho fewer in number, generally have sound economic units. They produce enough to maintain a better standard of living.

The county gets 25 percent of the net returns from grazing permit fees. This amounts to $14 to $15 per quarter section each year from the Fort Pierre project.

This may not be much by Iowa standards. But Williams points out that taxes on his own land in three different counties, ran from $29 on an improved quarter down to only $9 for others.

In 1953, Stanley county received an average of $15 per quarter from government owned land in the grazing district. In 1954, taxes on privately owned Stanley county land within the district averaged about $19 a quarter. This included taxes on building and improvements.

How does the federal land project add up? After a brief look, it seems fairly certain that federal action in this formerly wind-eroded area has been good for the land.

People, both those who were helped to move and those who remained in town and in the country, benefited. Their economy now has a stronger, more stable base.

But there are costs that must be weighed against those benefits. And costs would be very hard to figure correctly. Probably no two men would arrive at the same figure. How much of the original cost, for example, should be charged to resettlement of farmers whose land was blowing away? How much should be charged to land reclamation? Both human reclamation and land reclamation were motives for the project.

Most people would probably agree that the original land buying project was a sound move. Then South Dakota had been hit by a succession of dry years, grasshopper plagues and dust storms.

Do 20 years of experience with government land projects give us a guide for consideration of other land buying proposals as in the present Dust Bowl?

To some extent. Government land projects have helped in South Dakota and in other states. It's true that lessons learned there probably cannot be applied wholesale to other areas.

Grass cover may be harder to establish. Different approaches may be needed in view of social and economic changes since the thirties.

Important thing to remember is this: Government action can help salvage both land and people. Big question is: Is the situation in the Southern Great Plains bad enough to justify a government land buying program now?

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Available in 500, 1000, 1350 bushel capacities. Also, heavier, larger capacity AAA Corrugated Bins, 1000 to 3300 bushels.

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ST. PAUL, MINN.

"We don't need any help"

So says one farmer, but others declare farm program is needed

HOW do farmers like the present farm program? Do they think it will improve as time goes on? Do they think it's working well? Or is it time for a change?

Men and women have somewhat different opinions on the program. Here is the way they vote. (Full text of questions on page 61):

	Men	Women
1. It's working well	18%	15%
2. Little disappointed	37	31
3. Need a change	37	23
4. Undecided	8	31

Men of different ages voted about the same way. But younger women contributed more than their share to the undecided vote. Older farm women were more likely to have opinions.

One older farmer in Louisa county said: "I don't pay much attention to the program. I just farm and hope I can make a go of it. But I'm glad my farm is paid for."

A young woman in Wright county had this view: "We don't need any help from the government except in case of disaster such as a flood or the dust storms out in the dust bowl."

A Humboldt county farmer looked with gloom at the future. "It's overproduction that's hurting, and I don't know how we're going to get out of it."

Secretary Benson came in for some comments. One farmer in Carroll county said: "I don't think Benson should be in there. He isn't doing things right."

But a large farm operator in Cerro Gordo county insisted: "The present farm program isn't Benson's program. If he had been allowed to work out his program, it would have been O.K., but as it is, I'm disappointed."

Republicans and Democrats showed the expected differences of opinion. Here is the way they voted:

	Rep.	Dem.
1. It's working well	19%	12%
2. Little disappointed	36	32
3. Need a change	25	41
4. Undecided	20	15

An older farmer in Mahaska county commented: "Farm program? I don't think there is much of one any more."

A young woman in Clay county, however, said: "It's better than it used to be. I guess we should be thankful, but it seems like we could get something definite on more things, so farming wouldn't be so uncertain."

A renter in Webster county declared: "I'm thankful for the corn sealing program. If it was not for that, prices would be a lot lower."

YOU CAN FIND extra hours in your oilcan. It takes just a little time to properly lubricate farm equipment according to the instruction books. Agricultural engineers agree that nothing will do more to prolong the useful life and efficiency of farm equipment than regular, correct and thoro lubrication. You'll find valuable instruction tips in most books, too.

PAW TUCKER—Send for Davy Crockett!

How's the farm program working?

Good? Fair? Bad?

The Wallace-Homestead Poll asked Iowa farm people: "What do you think about the present farm program? Check the statement that comes closest to your views?"

This is the way they answered:

1. **It's working well. Let's stay with it.....17%**
2. **I'm a little disappointed, but maybe it will be better as time goes on.....34**
3. **The present program isn't helping us. We need a change.....30**
4. **Undecided.....19**

"Maybe the program will do better after a while." This was the view of Mrs. Roger Hesse of Allamakee county, Iowa. One third of women agreed with her.

"Stay with it," is verdict of Leonard Hoey, Fayette county, Iowa. One-fifth of men voted approval of farm program.

"Hope it gets better". Richard Utter, Louisa county, Iowa.

"Need a change" is vote of Mrs. John Ward, Clarke county. One-fourth of farm women thought so too. One-third were undecided.

"No help" is comment of G. H. Frank of Cass county on farm program. Over one-third of men agreed.

Mr. Vogelaar farms 160 acres and sells clean whole milk from 16 cows. Shown here with a supply of always-dependable Kendall Milk Filter Disks.

NEW METAL CONTAINER

Self-closing top. Screen bottom provides ventilation, keeps out insects. Dark blue enamel — "hanging holes" in back. Order one NOW — to hold 6 or 6½" filters, $1.10 — to hold 7, 7½, or 8" filters, $1.25.

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'CHUCK WORCESTER tells you more about Kendall disks on his "Sunrise Hour" at 5:15 over WMT.

"WOULDN'T BE WITHOUT THEM

for . . . clean milk"

says Mr. Tunis Vogelaar

Mr. Vogelaar used his first Kendall Milk Filter Disk over 10 years ago—and he has used *only* Kendall disks ever since! Only *complete satisfaction* wins that kind of loyalty.

The fibers in a Kendall disk are *man-made;* they never vary. That means you get *uniform* sediment removal. And don't be misled by the slim appearance of Kendall milk filters—they're *guaranteed standard weight*—full fiber content—yet *pressed* to reduce bulk by 75%! Easy to handle, easy to store in small space. Most important, Kendall disks filter fast and filter clean. Take Mr. Vogelaar's advice: use Kendall Milk Filter Disks for easy straining and really *clean* milk. Kendall Mills, *Division of The Kendall Company,* Walpole, Massachusetts.

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Sunday, August 14.....2 p.m.

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20th CENTURY SHOWS ON THE MIDWAY

Farm News Briefs

ABOUT $35,000 in prize money will be paid out at the National Barrow Show at Austin, Minn., Sept. 13-16, show directors announce. Dr. A. E. Darlow, noted livestock judge and dean of agriculture at Oklahoma A. & M., will be the speaker at the annual banquet on the first evening of the show, Sept. 13.

▼ ▼ ▼

TWO IOWA STATE College workers received $1,000 awards and national recognition last month. They were: Dr. Pearl P. Swanson, assistant director of home economics research, and Floyd Arnold, extension dairyman. Dr. Swanson won the Borden award on the basis of her research in human diets and nutrition. Floyd Arnold won the DeLaval award for his promotion of the DHIA program and other dairy extension work in Iowa.

▼ ▼ ▼

CORN STORAGE will again be a major problem in Iowa, says Dwight Meyer, chairman of the state ASC committee. Meyer says that when corn loans mature on July 31, the corn involved is expected to exceed available storage space in government bins and in commercial warehouses by about 68 million bushels. Meyer urges farmers to reseal about 50 million bushels of corn to help meet the problem.

▼ ▼ ▼

WHAT IS CLAIMED to be the largest, most comprehensive exposition of past, present and future farming mechanization will be presented, Aug. 15-20, at East Lansing, Mich. The show will cover more than 60 acres of the Michigan State College campus. Admission is free. Parking space is available for 10,000 cars. This exposition will be presented by Michigan State College and cooperating groups.

▼ ▼ ▼

COMING EVENTS: National Farm Safety Week, July 24-30; National Duroc Congress, Hawkeye Downs, Cedar Rapids, Iowa, July 28-30; Iowa Cooperative Institute, Iowa State College, Aug. 1-2; Cattle Feeders Day, Iowa State College, Aug. 4; American Institute of Cooperation, Purdue University, Lafayette, Ind., Aug. 7-11; Illinois State Fair, Springfield, Aug. 12-21; All Iowa Fair, Cedar Rapids, Aug. 14-21; Mississippi Valley Fair, Davenport, Aug. 16-21; Iowa State Plowing Championships, Cherokee, Aug. 18; Iowa State Fair, Des Moines, Aug. 27-Sept. 5; Minnesota State Fair, St. Paul, Aug. 27-Sept. 5.

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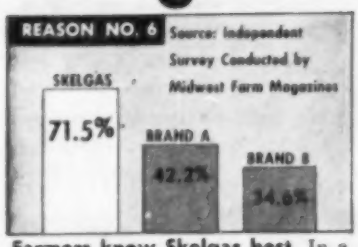

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SLOW DOWN AND LIVE!

Leaders in the Iowa swine industry smile as Gov. Leo Hoegh proclaims Duroc week in Iowa in honor of the National Duroc Congress, July 28-30. With Gov. Hoegh are (left to right): Herman F. Anderson, Polk county Duroc breeder; Iowa Secretary of Agriculture Clyde Spry; Wilbur Plager, secretary of the Iowa Swine Producers Association; R. E. Judd, editor of Duroc News; Clarence E. Bundy, Ames, secretary of the Iowa Duroc Breeders Association; John Knotek, Riverside, Iowa, Duroc breeder; B. R. Evans of the United Duroc Record Association; Warren Louden, Grinnell, vice president of the Iowa Duroc Breders Association; and John W. Simpson, Edgerton, Mo., president of the United Duroc Record Association.

At National Duroc Show,

Meat-type gets spotlight

MORE than 2,000 hog men will gather at Cedar Rapids, July 28-30, for the eighth National Duroc Congress.

In addition to the usual show ring activities, Duroc men will be placing an increased emphasis on meat type. In fact, a special type standardization committee will place the classes.

More than 250 of the nation's best Durocs are expected to complete for more than $4,000 in prize money.

Most important part of the show, says the United Duroc Record Association, will be the work of the type standardization committee. This is a panel of swine experts including producers, packers and college specialists.

This committee will place the classes and discuss them. Heading the committee is Harry Russell, extension livestock specialist at the University of Illinois. Their job is to choose the hog with the most red meat.

Hog raisers will have a chance to check on the judging committee, at least in the barrow show. The top 15 carcasses of the barrows in the barrow show will be on display.

Visitors to the National Duroc Congress will also see several litters brought to the Congress in an attempt to qualify as certified meat type litters.

In a plan announced last month, Duroc litters may be certified as meat type if they meet standards of litter size, weight for age, carcass length, backfat thickness and loin area.

In addition, the plan provides for certifying meat type pig crops, litters, sires and matings.

A total of eight pigs from at least five different litters by the same sire must be submitted for slaughter to qualify for a certified pig crop. Production registry litters may be certified if two pigs are submitted for slaughtering and both qualify.

A certified sire is a boar that has sired five litters that qualify as certified litters. These litters must be out of five different sows, not more than two of which are full sisters or dam and daughter combination. A certified mating is a repeat mating of a boar and sow that has produced a certified litter.

Iowa Gains On Brucellosis

Number of brucellosis-infected cattle in Iowa herds appears to have been reduced one-fourth during the past year.

This news comes from Dr. John B. Herrick, Iowa State College extension veterinarian.

Only 4.6 percent of the cattle tested during the first three months of 1955 showed infection. During the same three months of 1954, 6.3 percent were found to be infected.

Iowa still has a long way to go, Herrick reminds us. Average brucellosis infection in the U. S. is 2.5 percent. Only four states in the country show a higher brucellosis infection in their cattle herds.

Next step for Iowa, says Herrick, is to start brucellosis committees in all counties that don't have them. Seventy county committes are organized now with 29 to go.

BROILERS make efficient use of feed. Recent University of Maryland tests produced broilers with only 1.64 pounds of feed per pound of gain.

I WAS JUST FIGURING...
by Cy Watkins

Let's suppose you've just had 10 litters of husky little pigs farrowed . . . next morning you go out to look and what do you see? . . .

30 DEAD PIGS!

A shocker? It sure is . . . it's happening to you with every new litter but you may not know it. Out of every ten litters, you can figure roughly that at least 30 PIGS DIED IN GESTATION. Worst of all, they're 30 dead pigs that you could have had if you'd paid a little extra attention to feeding the sows.

I'm not talking about molly-coddling sows, nor about expensive trick feeds or medicines. I'm just saying that if you'd treat her like a "mother," feed her the **right** things, (which probably cost less than what you're feeding right now) you'll increase the average size of your litters by three pigs. Ten sows, 30 extra pigs.

The reason why most hog raisers don't pay much attention to this is that they never see those 30 dead pigs . . . they're absorbed back into the sow's body. But believe me you lost 'em just the same . . . and here's how.

Maybe nobody knows how many eggs a sow lets down when she ovulates . . . but this is sure. There are a lot of eggs that are fertilized that are never farrowed. Feeding experiments prove it. More pigs are in there for you but something happens between breeding and farrowing so they never see the light of day.

I figure it this way. Let's say there were 15 eggs fertilized . . . which could give you 14 or 15 husky little porkers. But after a few weeks (maybe on nothing but corn) the sow's body realizes that it's all a mistake and that she won't have the nutrients to form ALL 15. If she tries to form 15 when there's only nutrient for 10 nature says that 5 gotta go . . . otherwise none of 'em can survive. So the sow's body gives up on 5 so the rest can be formed. They're absorbed back into the sow's system and you never see 'em.

We don't know how to save ALL of those pigs as yet . . . but we do know how to save at least 3 per litter, and that's by feeding the nutrients a sow needs to build pigs with.

The tragic part is that it doesn't cost any more to feed her right. (In fact it usually costs about 1/3 less!) The feed just has to be DIFFERENT than when you're feeding for meat.

She can use more roughage—things like grass silage, ground alfalfa hay. And she certainly needs a good protein supplement. That protein supplement should have high quality protein, plenty of minerals and vitamins and B-12 and an antibiotic. This gives you more pigs, healthier pigs, and a good sow's milk supply.

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Phase of the moon when crops are planted makes no difference in how they grow, says Robert Krebill of Lee county, Iowa. Two-thirds of the farmers questioned agreed with Krebill.

Farm by the moon?

Poll quizzes farmers about value of planting crops by the almanac

"DO YOU believe that some crops grow better if planted during a certain phase of the moon?"

"Silly question," scoffed a Marshall county, Iowa, farmer when the Wallace-Homestead Poll asked him.

"I don't plant in the moon; I plant in the ground," chuckled another from Louisa county, Iowa.

But an older Mahaska county, Iowa, farmer replied: "I wouldn't plant a thing any other way—only by the moon signs."

Farming by the almanac is much less common than it was 50 or 75 years ago. But the latest Wallace-Homestead Poll indicates that "moon farming" didn't pass on with the horse and buggy—not entirely, at least.

More than one-fourth of the farmers questioned—29 percent—said they believe crops grow better when planted according to the moon phase. Five percent were undecided. And 66 percent—or two out of three—said they didn't believe in it.

Younger farmers were less likely to believe in moon farming than were older ones. Here's the breakdown:

Age	Yes	No	Undecided
20-34 Yrs.	19%	75%	6%
35-49	27	70	3
50-over	38	56	6

Of course, not all the farmers who said they believed in moon farming practice it. A Wright county, Iowa, farmer commented: "Yes, I think there's something to it. But I never practice it. Have to plant when time and weather permits."

Education seemed to make some difference, too. Here's how farmers answered, according to amount of schooling received:

Schooling	Yes	No	Undecided
Eight years or less	37%	55%	8%
Nine years or more	29	65	6

So you might conclude that popularity of farming by the almanac will continue to drop—as younger farmers with more education move into the business of farm operation.

Seriously, what about moon farming? Is it fact or fancy? We asked Dr. Gerald Barger, climatologist, Iowa State College.

There's no experimental evidence to support the argument for planting crops during a certain phase of the moon, Barger says.

"Good seed, proper seedbed preparation and fertilization, weed and pest control and a little luck with weather will assure your bumper crop—not a phase of the moon," Barger declares.

Scientists are agreed that the moon has no effect on weather. But they admit that the appearance of the moon sometimes is a reliable weather guide. That's because the looks of the moon depends on atmosphere, conditions of the sky, etc.—not because the moon controls the weather.

But moon farming has continued to exist for years without encouragement from scientists. And it influences livestock programs on some farms, too.

For example, a young farmer from Louisa county, Iowa, said he didn't think it was necessary to plant crops according to moon phase. "But I know that castrating or weaning is much better when the moon is right."

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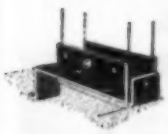

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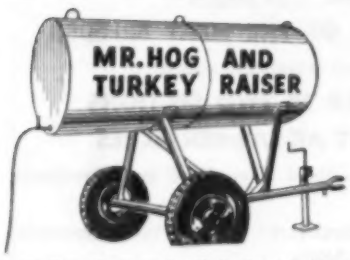

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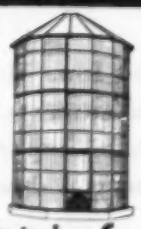

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This request is all too familiar to the druggist, the beautician, and the physician.

Care of the hair and scalp is still left much too often to preparations which may help one and fail many.

Shampooing and grooming hair is important for cleanliness and also affords an opportunity to find other scalp conditions that may exist. Loss of hair, for instance, is commonly the first indication of a general body disease.

Cancers and fungus infections occur on the head as elsewhere, but they are often hid by patent remedies. This causes a delay in obtaining proper treatment, and prompt relief is often impossible.

Once a person is sure that he has ordinary dandruff, he can often effectively control the condition by the use of egg shampoos. The hair is moistened slightly, and the yolks of three eggs are worked into the scalp to form a lather. After 10 minutes, this is rinsed out with warm water, and the process is repeated using the whites of three eggs. Rinse out immediately.

If the scalp is irritated, or if control is not obtained by weekly egg shampoos, a physician should be consulted. Many other treatments are available from the physician for persistent or bothersome cases.

Hair dyes and tints are, as a rule, harmless. However, if itching, scaling of the scalp, or swelling of the eyes should occur, the preparation should be discontinued until the condition clears.

Allergy to specific dyes, tints, shampoos or grooming preparations does occur, and when present is all too often missed or treated ineffectively. If such trouble should occur, the safest thing to do is consult your family doctor.

Articles in this series are prepared by members of the Health Education Committee of the Iowa State Medical Society.

DAN McGILLICUDDY defines a cautious man as one who hasn't let a woman pin anything on him since he was a baby.—Gowrie News.

"YOU don't ring it when YOU'RE ready for dinner. I ring it when dinner's ready for YOU."

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Auctioneer, Dick Kane — Arch Stone, Fieldman

BON-TON FARM
YORKSHIRE BRED SOW SALE

45 HEAD

BRED SOWS AND FALL GILTS
ALL BRED TO OUR
ENGLISH SHOW BOARS

1. **KELMSCOTT CANADIAN BOY 1305**
2. **MAPLE LEAF CHAMPION BOY 0225**
3. **BON TON CHAMPION BOY 001J**

QUALITY BOARS THAT ARE PROVEN SIRES

BIG STYLISH FEMALES SHOWING FOR AUGUST AND EARLY SEPTEMBER LITTERS

Meat Hogs Are Here To Stay!!
Our Yorkshires are real easy feeding red meat producers.
Yorkshires are the fastest growing breed in the USA.
Get in on the Premium Market!!
At the

BON TON FARM SALE

2 miles east and 2 miles south of

GLIDDEN, IOWA, FRIDAY NIGHT, JULY 29

Sale at 7:30 P. M. Sharp

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H. R. GILLILAND
Albia—(R.R.2)

FORREST L. McCALLEY
Alburnette—2 SE

EDWARD M. BLANSHAN
Ames—(R.R.1) 2½ W, 6½ N

JOE DIMIG
Atlantic—(R.R.1) 1 S, 1 W

J. W. KENT
Auburn—

A. J. GOEPFERT
Bellevue—(R.R.1) 10 W off Hwy. 62; or 4 N of Andrews

DALE DIXON & SONS
Bloomfield—(R.R.3) 2 W on Hwy. 2, 6 S

LES BUZZELL & SONS
Boone—(R.R.1) 9 SW

LLOYD F. NELSON & SONS
Boone—(R.R.2) 2 E, ¼ N

CYRIL SNYDER & SONS
Breda—(R.R.1) 3 W, ¾ N

M. J. HOWLETT & SON
Britt—6 S, 1 E

DEIBER'S DUROCS—Roy Deiber
Buck Grove—(R.R.1) 1 W, ½ S of Manilla RR Depot

W. J. STEWART
Burt—(R.R.1) 5 E, 1 N, ½ E

JOE PUDENZ & SON
Carroll—(R.R.2) 1 N

H. C. BARNTS
Central City—(R.R.2) 2 E, ¼ N of Alburnette

ALLIE GUENTHER & SON
Clarinda—(R.R.5) 5½ SE

ELMO PFANDER
Clarinda—(R.R.1) NW corner of town

GROUWINKEL BROS.
Columbus Junction—(R.R.3) 6½ SE

JERRY CROWE
Conway—1 N of Gravity, 2½ E

E. M. REICHARDT ESTATE
Corning—(R.R.4) 4½ S, 1 W, ½ S

ZELL GARRATT
Corydon—6 W, 1½ S; or 3 W of Allerton, 1½ N

RUSSELL WILLIAMS & SONS
Crawfordsville—¼ N on Hwy. 218

FRANK GOETZ, JR.
Cresco—(R.R.3) 4 S of Jct of Hwy. 9 and 63 at Davis Corners, 1¾ E

EVERETT M. BOURNE
Creston—(R.R.3) 7 N, 1 E on Cherry St. Rd.

JOHN D. HALL
Cylinder—(R.R.1) 3 E, 5 N, ¾ E of Emmetsburg

PAUL BROS.
Dallas Center—(R.R.2) 3 N, 3½ E

WM. J. WELTE
Danbury—(R.R.1) 2 N

O. E. WILCOX
Deep River—(R.R.2) 1 E

ALFRED JOHANNSEN
Delmar—(R.R.1)

L. C. MEINKE
Delmar—4½ W

ERNEST L. PERRY
Denver—

HERMAN F. ANDERSON
Des Moines—(E. 6th and Grand) 11¼ E on Hwy. 6, 2½ N

LYLE A. CHAPMAN
Durant—Mile Run, 2 W on Hwy. 6, 1 N

EDWARD A. KERN
Dyersville—(R.R.3) 2½ N on Hwy. 136

GREGOR F. VASKE & SONS
Dyersville—(R.R.3) 3 N on Hwy. 136

A. L. DAHM & SON
Early—2 W

JAMES VOKOUN
Elberon—(R.R.1) 5 SE

EDWIN GEERDES
Everly—(R.R.2) 1 S, ½ E

EMERY M. JENSEN
Exira—(R.R.1) 2½ N, ¼ E

OLIVER BRICKER
Farragut—3 S

HERBERT L. CLARK
Floyd—(R.R.1) 3 W, 5 N, ¼ E

L. B. OLSON
Garner—5 N, 2 E

DONALD G. PETERS
Gilmore City—5 S, ½ W

JULIUS BUCH
Glenwood—(R.R.3) 6 E on Hwy. 34, 3 N on Hwy. 242

LYLE BARKEMA
Goodell—(R.R.1) 2 N, ¼ E

C. E. LOUDEN & SON
Grinnell—(1211 Main) 3 N, 4½ W

HUGH LOUDEN & SON
Grinnell—(R.R.2) 3 W on Hwy. 6, 3 N

S. E. ROBINSON
Guthrie Center—(703 N. 2nd St.) NW corner of town

BLAINE C. HIRT
Hartley—2½ E on Hwy. 18

CLOY W. HIRT
Hartley—3½ S

MILTON CRONBAUGH
Hartwick—(R.R.1) 1 E

BRUCE HADDOCK & SONS
Hornick—(R.R.2) ¾ S on Hwy. 141, ½ W, ¼ S

CRAFT'S DUROCS
Hudson—2 NW

DOWIE E. SMIT
Hull—(R.R.1) 1 W, 1½ N

FRED JENSEN & SONS
Humboldt—(R.R.2) 2 E, ½ N

M. C. DOHERTY & SONS
Inwood—(R.R.1) 4½ N, 3 W

HOWARD BERRY
Iowa City—(R.R.6) 6 SE

CECIL J. HUGHES
Iowa City—(R.R.4) 7 SW

KAYWARD FARM
Iowa City—(R.R.4) Sunset and Benton St.

GEORGE T. PARSONS
Iowa City—(R.R.7) ½ W of Morse, 1 S

IOWA FALLS DUROC BREEDERS ASSOCIATION
Iowa Falls

WILLARD C. KLEIN
Iowa Falls—(R.R.1) ½ S, 2½ W

MERLE NOLTE
Iowa Falls—(R.R.1) 2 S, 2 N

JOHN F. WEBER
Irvington—2 E on blacktop

SAM ROBERTS & SONS
Jefferson—(R.R. 4) 6 SW, 1 S of Hwy. 30

C. J. POYNER
Jesup—(R.R.2) 1 W

HOMER W. MINNICK
Kent—(R.R.1) 11 SW of Creston on Hwy. 34

ORVAL DAWES
Keystone—(R.R. 1) 1½ N, ½ W

BEN HOUSER
Kiron—4¾ N

J. H. SAMUELSON
Kiron—(R.R.2) 1 N, 1 E, 3 N, ¼ W

LEWIS & INGVALD HORVEI
Lake Mills—4 NE

FRANCIS H. CHRISTIAN & SONS
LaPorte City—5 NE

NELS LINDHART & SONS
Lehigh—(R.R.1) 2 NW

THEODORE R. LIGHT
Lisbon—(R.R.1) 3 S

BERT E. MILLER
Lisbon—(R.R.1) SE edge

ALLEN WEHDE
Lisbon—(R.R.2) 2 N, 4 E

DONALD H. HARMS & SON
Little Rock—(R.R.1) 1 S, ½ E

O. S. LARSON
Logan—(R.R.3) 4 W on Hwy. 30, ½ N

OTIS L. VOSS
Luzerne—(R.R.1) ½ S, 1 W

WESLEY HENDERSON
Madrid—(R.R.2) 4½ S

SCHMIDT BROS.
Mallard—6 E, 2½ N

GLEN & DON DADISMAN
Manly—½ W of intersection Hwy. 9 and 65, ½ S

WAYNE L. RANNIGER
Manning—(R.R.2) 3 W, 3¾ N

LESTER W. BOWMAN
Maquoketa—(R.R.5) 8 N, 1 E; or 3 W of Andrew

J. R. CAPUTO
Marshalltown—(R.R.2) 6 E on Hwy. 30, 1 N

ROBERT RIDER
Marshalltown—(R.R.3) 7 SW

E. I. NAGLE
Mason City—(R.R.1)

PAUL SCHMIDT
Massena—(R.R.2) 1½ W, 1½ N

CECILE KITCHEN
Maxwell—(R.R.3) 6½ NE

HARLAN P. HARPER
Melbourne—3 E, 3 S, ½ E

HARRY A. PETERMEIER & SONS
Melbourne—(R.R.1) 2 E, 2 S

C. J. LIPPKE & SON
Merrill—4 E, 1 S; or 5 S of LeMars, 1 W

MELVIN NELSON
Morning Sun—(R.R.2) 2 N of Mediapolis on Hwy. 61, 2 W

WILBUR FARIS & SONS
Mount Ayr—3 N, 1 E, ½ N

HOMER L. MINNICK
Mount Ayr—(R. R. 1) 7 N on Hwy. 169

HAROLD C. TIMM
Muscatine—(R.R.5) 3 W on Hwy. 22

G. W. NICHOLSON
Nashua—(R.R.1)

EDMUND OPPOLD
Parkersburg—1 S, 1½ W

WILLIS M. VANDE VOORT
Pella—(R.R.2) 2 E, ¼ N

ARNOLD HARRIS & SONS
Pilot Mound—(R.R.1) 2½ S

ROGER HARPER
Pleasantville—(R.R.2) 2 N

H. C. WHIPPLE & SON
Prole—7 W of Indianola on Hwy. 92, 2 S, ½ W

PEARSON STOCK FARM
Radcliffe—1½ S of Garden City

GLENN A. OLSON
Rake—1½ S

FREDERICK LARSON
Randall—1 W on Hwy. 69

O. K. FLAUGH
Ransom—(R.R.1) 2 N

W. H. HELMKE & SON
Renwick—(R.R.1) 2 N on Hwy. 60, 1 E

A. H. STREETER & SON
Renwick—4½ N, 3 E

LAUREL J. ELY
Rhodes—1½ SW of Melbourne on Hwy. 64, 2 S

T. E. DAVIS
Richland—(R.R.1) 2¾ S; or 8 N, 2 W of Fairfield

KNOTEK BROS.
Riverside—(R.R.1) 9 SW

VICTOR DUEA & SONS
Roland—2 E, 2 S

GERALD DAWSON
Rose Hill—(R.R.1) 2 W, 1½ N

BEN H. PERSON
Runnells—(R.R.2)

VINCENT E. DRUMMY
Ryan—(R.R.2) 2 S, 1 E

BEN BOERJAN & SONS
St. Ansgar—3 S, 1 E

N. W. TOPF & SONS
Salix—(R.R.2) 1½ SE

FRED HATCH
Scranton—(R.R.5) 7 W of Jefferson on Hwy. 30

MILLER & BECKETT
Shenandoah—(R.R.3) 8 E on Hwy. 2

DEAN F. SWENEY
Shenandoah—(107 Broad St.)

A. J. GACKE & SON
Sibley—(R.R.1) 2½ SW

ELMER D. SCHRADER
Sigourney—(R.R.1) 6 E

BERT BROEK & SONS
Sioux Center—(32 2nd St. SE) 3 N on Hwy. 75

JOE G. RAIM
Solon—2 NE

WILLIAM GEO. FLINT
Spencer—(R.R. 2) 5 N, 1¾ E

GEORGE A. HEIKENS
Spencer—(R.R.3) 2 W, 1 S of Fostoria

LORAINE F. CHASE
Stanley—2½ NE

JIM RODMAN
Sumner—(R.R.4) 1 W, 1¼ N

FLOYD C. BENTZ & SON
Thornton—(R.R.2) 1½ N on Hwy. 107

JOE DUEA & SONS
Thornton—1 W, 1 N

ARNOLD H. MARTIN
Tipton—(R.R.2) ½ N

GERALD NEVINS
Tipton—(R.R.1) 4½ NW

A. J. PAUSTIAN & SON
Tipton—4½ SE

RAYMOND VITENSE & SON
Tipton—(R.R.2) 3 SE

E. J. DINSDALE
Traer—3½ S of Reinbeck

VERNON OSSENKOP
Vail—(R.R.2) 2 S, ½ E

CHARLES L. COTTRELL
Van Horne—(R.R.1) 3 N Inters. of Hwys. 30 and 218, 2¼ E

ELMER WILLEY
Vincent—1 N, 1 E, 1 N

ARTHUR G. DILL & SONS
Vinton—(R.R.1) 3½ SW

C. W. BARTHOLOW & SON
Washington—(R.R.1) 1 S on Hwy. 1

E. W. KLINGAMAN & SON
Waterloo—(R.R.1) S edge on Hwy. 63

LEONARD BAAS
West Bend—2 N, 4 E, ¾ N

RAYMOND C. LONG
West Liberty—(R.R.2) 6 NE

GEORGE BORNESS
West Union—(R.R.1) 8 N; or 8½ NE of Eldorado

ERNEST KOESTER
West Union—(R.R.1) 6 NW; or ½ S of Eldorado

OTIS N. LINDHART
Williamsburg—(R.R.3) 2 W, 3 S

GEORGE S. MORRIS
Winterset—(R.R.3) 5½ W, 2½ S

H. K. DANNER
Yale—3¼ N on Hwy. 17

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BULLS FOR SALE
Sons of
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Grandson of Eileenmere 487th and Eileenmere Eric by EILEENMERE W. B. They are 12 to 24 months old, ready for service. Herd bull prospects for Breeder or Farmer. They will sire top cattle. Visit farm any time.

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12 registered bulls, serviceable age, by BLUEBOY LAD 100th OF IDA, and BANDOLIER 214th OF WILTON. Also a number of excellent 2 and 3-year-old heifers by BLUEBOY LAD OF IDA and mated to BANDOLIER 214th OF WILTON. Genuine quality, rich breeding, priced right.

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MCV DOMINO
GPH PLUS PERFECT 4th
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Coming Livestock Sales

ANGUS

Aug. 27—Otto G. Nobis & Griff Norton, (Dispersion) Joint Herd, Wilton Junction, Iowa.
Sept. 14—E. W. Thompson, Sedalia, Mo.
Sept. 19—North Central Missouri Breeders, Chillicothe, Mo. Lewis Anderson, Secy.
Sept. 27—A. C. Flint, Bethany, Mo.
Oct. 1—Draper & King and Ben & Vera Ivins, Corydon, Iowa. Sale at Homeston, Iowa.
Oct. 6—George Flamank, (Dispersion) Albany, Mo. Donald J. Bowman, Sale Mgr., Hamilton, Mo.
Oct. 8—Hawkeye Angus Breeders Assn., Cedar Rapids, Iowa. Albert Stuart, Secy., Newhall, Iowa.
Oct. 10—Nodaway County and Harrison County Joint sale, Maryville, Mo.
Oct. 19—Blackpost Ranch, Olathe, Kan.
Oct. 20—Grand River Angus, Princeton, Mo. Marion Summers, Mgr., Princeton.
Oct. 21—Lazear Angus Farm, Chariton, Iowa.
Oct. 22—Hale Thompson, Eagleville, Mo.
Nov. 5—C. H. Nau & Son (Dispersion), Mt. Pleasant, Iowa. Sale at Columbus Jct., Iowa.
Nov. 7—Caverly and Taylormade, Maloy, Iowa.
Nov. 14—Interstate Angus Breeders Fall Show & Sale, Sioux City, Iowa. Dwight Tabke, Sale Mgr., Moville, Iowa.
Dec. 7—Otto Frank, Manilla, Findlay & Christensen, Harlan, P. K. Pratt, Walnut, and Charles F. Beerman, Dakota City, Nebr. Sale at Denison, Iowa.
Dec. 10—Pagemere (Jake Stimson Division) and Arlavon All 10th sale, Clarinda, Iowa.

FEEDER CATTLE

Sept. 8—Oswald Strand & Son, Manly, Iowa.
Oct. 10—Scotland County, Memphis, Mo.
Oct. 11—Davis County, Bloomfield, Iowa.

HEREFORDS

Sept. 9-10—Western Illinois Hereford Assn., Mt. Sterling, Ill. Robert Allen, Secy., Warsaw, Ill.
Sept. 17—Clark County Herefords, Kahoka, Mo. G. R. Breidenstein, Mgr.
Sept. 17—Northeast Iowa Breeders, Postville, Byron Bolt, Secy., Wadena, Iowa.
Oct. 1—Clark J. Lamport Calf sale, Britton, S. D.
Oct. 1—Tomlin & Wolland, Mason City, Ill.
Oct. 3—Thorp Hereford Ranch, Britton, S. D.
Oct. 3—(Night) North Star Herefords, Britton, S. D.
Oct. 5—Ralph Bramer, Murray, Iowa.
Oct. 6—Wilbert G. Robinson, (Dispersion) Sabula, Iowa.
Oct. 8—John Dittmer & Sons, Lacona, Iowa. Sale at Knoxville, Iowa.
Oct. 19—Blue Grass Hereford Assn., Princeton, Mo. Norma Gay Young, Secy., Princeton, Mo.
Nov. 3—Northeast Missouri Hereford Breeders Assn., Memphis, Mo. Vernon Winkler, Secy.
Nov. 5—Orval Burchett & Sons, Grand River, Iowa. Wayne O. Burchett, Mgr.
Nov. 14—Bianchi Hereford Ranch, Macon, Mo.
Nov. 17—Illinois Futurity show and sale, E. Glen Ash, Secy., Harristown, Ill.
Nov. 19—Western Illinois Hereford Assn. (Calf Club sale) Macomb, Ill. Robert Allen, Secy., Warsaw, Ill.
Nov. 26—Hereford Breeders Calf sale, Story City, Iowa. Leon Joy, Mgr., Ames, Iowa.

POLLED HEREFORDS

Sept. 9-10—Western Illinois Hereford Assn., Mt. Sterling, Ill. Robert Allen, Secy., Warsaw, Ill.
Oct. 15—O'Bryan Ranch, Hiattville, Kan.
Oct. 20—Missouri State Futurity show and sale, Columbia, Mo. Donald J. Bowman, Sale Mgr., Hamilton, Mo.
Nov. 9—Master Key Place, Fulton, Mo.
Nov. 14—O'Bryan Ranch, Hiattville, Kan.
Nov. 16—Ted Griswold, Livingston, Wis.
Dec. 5—L. J. Marzen, Marble Rock, Iowa.
Dec. 8—Green Ridge Farm, (Dispersion) Donald & Helen Bowman, Kidder, Mo.
Dec. 9-10—Illinois Polled Hereford show and sale, Princeton, Ernest Painter, Secy., La Harpe, Ill.

SHORTHORNS

Sept. 24—Hawkeye Downs 5th sale, Shorthorns and Club calves. Earl S. Girton, Sale Mgr., Vinton, Iowa.
Oct. 3—Northwest Missouri Breeders, Rockport, Mo. Dr. L. W. Landfather, Mgr., 412 W. 2nd, Maryville, Mo.
Oct. 6—Carl Retzlaff, Walton, Nebr. Mervin F. Aegerter, Sale Mgr., Seward, Nebr.
Oct. 8—Spencer Shorthorn Sale and 4-H Calf sale, Spencer, Iowa. Albert J. Hamann, Mgr., Rock Rapids, Iowa.
Oct. 21—"Sale of Satisfied Buyers" Knoxville, Illinois. Hal Longley, Sale Mgr., 16 S. Locust St., Aurora, Ill.
Oct. 22—Aksarben Acres, Omaha, Nebr.
Oct. 26—Carl McKenzie, Armington, Ill.
Nov. 5—13th Semi-Annual Central States show and sale, Oskaloosa, Iowa. C. Emory Stewart, Sale Mgr., Rose Hill, Iowa.
Nov. 7—L. E. Mathers & Son, Mason City, Ill.
Nov. 12—Western Illinois Breeders, Macomb, Ill. Don Longley, Sale Mgr., 16 S. Locust St., Aurora, Ill.

POLLED SHORTHORNS

Sept. 15—Southwest Iowa Breeders, Red Oak, Iowa.
Sept. 16—Hawkeye Downs 14th sale, Cedar Rapids, Iowa. Earl S. Girton, Sale Mgr., Box 452, Vinton, Iowa.
Sept. 27—Sioux Empire Show & Sale, Sioux Falls, So. Dak. John F. White, Secy., Lake Norden, So. Dak.
Nov. 2—Missouri Breeders, Sedalia, Mo. Rollo E. Singleton, Sale Mgr., Jefferson City, Mo.
Nov. 16—Iowa State sale, Des Moines, Iowa. Wayne A. Carr, Secy., Cincinnati, Iowa.

DAIRY CATTLE

Aug. 1—Leo J. Timmerman, (Holstein Dispersal) Cuba City, Wis. Francis Darcey, Mgr., Box 143, Watertown, Wis.
Oct. 22—Northwest Iowa Ayrshire Assn. Spencer, Iowa, Mrs. Fred Ditscher, Secy., Alta, Iowa.

CHESTERS

Sept. 29—Henry Jurgensen, R.2, Olin, Iowa.

DUROCS

July 28-29-30—National Duroc Congress, Type show, Barrow show and sale, Cedar Rapids, Iowa.

HAMPSHIRES

July 28—E. R. Brenneman & Sons, Wayland, Iowa.
July 31, Aug. 1-2—National Type Conference, Indianapolis, Ind.
Sept. 22—(Night Sale) Iowa Hampshire Breeders, Cedar Rapids, Iowa.
Sept. 23—(Night Sale) Orville Meeker, Oakville, Ia.
Sept. 26—(Night Sale) Duncan & Smylie, Columbus Jct., Ia.
Sept. 29—(Night Sale) Dean Snyder, Good Hope, Ill.
Oct. 3—(Night sale) McGuire Hampshire Farm, Wisner, Nebr.
Oct. 4—Allen Lang & Son, Brooklyn, Ia.
Oct. 4—(Night Sale) C. T. Keen & Son, Le Grand, Ia.
Oct. 5—(Night Sale) Lettow Bros., Alden & Iowa Falls. Sale at Iowa Falls, Ia.
Oct. 6—(Night Sale) Emery Reimenschneider, Pierson, Ia.
Oct. 7—O. W. Jones & Son, Ute, Ia.
Oct. 8—(Night Sale) John Volk & Sons, Battle Creek, Nebr.
Oct. 10—(Night Sale) Keith Robertson, Columbus Jct., Ia.
Oct. 11—(Night Sale) Dale McGraw, Pleasantville, Ia.
Oct. 12—(Night sale) Lee Norris, Fremont, Iowa.
Oct. 13—(Night Sale) Fred Goodchild & Sons, Mallard, Ia.
Oct. 17—(Night Sale) Hardesty Hampshire Farms, Corning, Ia.
Oct. 19—Harry Knabe, Nehawka, Nebr.
Oct. 21—(Night Sale) Daggett & Soorholtz, Sale at Marshalltown, Ia.
Oct. 22—(Night Sale) Cecil Wilson, Lenox, Ia.
Oct. 24—(Night Sale) Fred Michaelsen, Ida Grove, Ia.
Oct. 25—(Night Sale) Lawrence Putney, Gladbrook, Ia.
Oct. 26—(Night Sale) Evertt Maaha, Walton, Nebr.
Oct. 29—(Night Sale) El-Jon Farms, Rose Hill, Ia.

LANDRACE HOGS

Aug. 29—(Night Sale) Iowa Landrace Breeders Assn., Boone, Iowa. Howard O. Koch, Secy.

TAMWORTHS

Aug. 5—(Night sale) Paul Paetow, Andover, Iowa, and Harold Eckermann, Rt. 3, Davenport, Iowa.
Sept. 12—(Night Sale) Floyd Crest Farm, Walter Kruse, Sheldon, Iowa.
Sept. 26—(Night sale) Lee Winther, Wisner, Nebr.
Sept. 30 - Oct. 1—National Type Conference Show & Sale, Cedar Rapids, Iowa.
Oct. 14—(Night sale) Charles F. Beerman, Dakota City, Nebr.

YORKSHIRES

July 20—(Night sale) Promotional Yorkshire sale, Princeton, Ill.
July 25—Ak-Sar-Ben Acres Dispersion, Omaha, Nebr.
July 29—(Night sale) Warren Dankel, Glidden, Iowa.
Aug. 3—(Night sale) F. L. Jackson & Sons, Lytton, Iowa.

SHEEP

July 26-27-28—American Corriedale Show & Sale, Laramie, Wyo. Rollo E. Singleton, Secy. 108 Parkhill, Columbia, Mo.

GUERNSEYS

REGISTERED GUERNSEYS
FOR SALE: 40 head, including 20 daughters McDONALD FARMS FORE PUBLICAN, double grandson DOUGLASTON LADY AUGUSTA, out of McDONALD FARMS HELENA, 734 lbs. fat, 8 years. Records. Vaccinated. Negative.
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GOLDEN SUNSET JERSEYS
Wonderful bull calf, Jan. 14, 1955. 5 of 7 nearest dams to sire 13,300M., 724 lbs. fat; 3 nearest dams to dam's sire, 13,365M., 704 lbs. fat. 3 nearest dams to next sire 13,860M., 757 lbs. fat; next sire full sister 12,278M., 617 F. (3 yr., 3 mo.). Tested dam 13,286M., 672 F. Price $250.
ENNIS JERSEY HERDS, FESTUS, MISSOURI

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MYSHA FARM

Offering Purebred MILKING SHORTHORN Cattle. A 4-year-old red bull, 2nd at Iowa State Fair. Bull calves and females all ages. See Herd at Iowa State Fair.
NORAN SHAVER ST. ANTHONY, IOWA

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Notice—Dairy Calves. If calves are shipped or delivered on approval, full responsibility is assumed when purchaser accepts delivery. Remember calves are young, some are small, which must be considered when buying.

LIVESTOCK FOR SALE

Saddle Horses—young registered.
American Saddle mares.
Dairy bulls—Ayrshire, Brown Swiss, Guernsey, Holstein, Jersey.

ANIMAL HUSBANDRY DEPARTMENT
Iowa State College Ames, Iowa

WISCONSIN-MINNESOTA DAIRY CATTLE
Choice HOLSTEIN and GUERNSEY heifers from 350 lbs. to 900 lbs. All heifers sold by pound. HOLSTEINS 14c per lb. GUERNSEYS 13c per lb. Also springing heifers and cows. Most heifers are from artificial breeding; a large number are calfhood vaccinated. Buy from the largest dealer in the NORTHWEST. Write or call.
LINK BROTHERS, INC. MINONG, WIS.

WANTED—ORDERS for high grade Wisconsin dairy heifer calves. Holstein and Guernsey. Bangs tested and vaccinated for shipping fever. Delivered by our truck, C.O.D. your farm in lots of 5 or more. Dairy heifers, open, bred and springing. Also cows available. Jay Shealor, Jr., Richland Center, Wisconsin.

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CHOICE COWS, HEIFERS AND CALVES
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TOP QUALITY
Holsteins, Guernseys, Brown Swiss.
All ages. Priced right.
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Wisconsin Holstein-Guernsey

Dairy heifers shipped to you on APPROVAL from WISCONSIN high production herds. Don't be misled, buy direct. Ask for FREE price list.
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SELECTED DAIRY HEIFERS

AND CALVES
from nationally known America's Dairyland sold on approval. Write for free information.
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HOLSTEIN AND GUERNSEY DAIRY HEIFERS AND HEIFER CALVES
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RUSS BRANNEN SAYS:
Show and Junior feeders; proper combing and curling tends to emphasize the width of the animal. To help prevent bloat, feed some dry hay and Kent Kattl-Bulk.

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INCREASE gains at lower cost. A little recognized mineral deficiency is now supplied by newly discovered TCf7 Factor . . . the secret of more efficient feed conversion for pigs. Only new, improved MIN-A-MIX Minerals give you this highly essential growth and health factor that has produced gains in pigs at a big saving. Let us tell you about this research work and tests that will help you save on feed costs.

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M & M Livestock Products Co. Eagle Grove, Iowa

Livestock News

Leading **Angus** breeders from 28 states and three provinces in Canada packed the ringside at the Penney and James dispersion sale at Hamilton, Mo., June 27, 28, and 29. The $1,049,765 received was a record for the breed by some $45,000. Demand was very strong thruout the three day auction, and averages were as follows:

93 bulls averaged $4,003
411 females averaged $1,642
504 lots averaged $2,082

Top price of the auction was $87,000 paid by Staley Acres, Kansas City, Mo., and Carl Neilson, Hemet, Calif., for Homeplace Eileenemere 375th, son of Homeplace Eileenmere 999-35th. This was a record price for any bull of the breed to sell at public auction. Mt. Regis Farm and Creswell Farm, Forrest, Va., paid $50,000 for Homeplace Eileenmere 511th, a great young prospect by Homeplace Eileenmere 678th.

Panther Ledge Farm, Allamuchy, N. J., paid $16,000, the sales top on females, for Homeplace Enquiry Dell 3d, a daughter of Eileenmere 487th from the great champion, Enquiry Dell W. Cherry Blossom B. D., a daughter of Eileenmere 922d, brought $15,000, the bid of Grady Gore, Rockville, Md.

Cols. Roy Johnston, Ham James, Ray Sims, and Paul Good cried the sale, which was managed by J. B. McCorkle.

Extra Features At "No Money" Auction

New feature at the "No Money" auction sale at the CK Ranch, Brookville, Kans., this year will be when two top Hereford bull calves and five Hampshire and Duroc boars will go on the block with bidders limited to 4-H and FFA clubs.

Bulls are Zato Heir breeding. Bulls and boars can be bought only by an organized chapter or club whose members pooled their Gooch Red Circle points for bidding by an authorized representative, according to J. J. Vanier, owner of the ranch and sponsor of the auction.

Date of the sale is July 23.

In addition to the seven "club" specials, boys and girls can buy 50 purebred steer calves, 50 registered gilts, five Holstein heifers, five bred gilts, and five Hereford heifers. Bids are made with Gooch Red Circle points. Buyers are limited to boys and girls under 22 years.

New Necro Treatment

To combat swine scours, necro and enteritis, a combination of the arsenical drug with water soluble vitamins has proved useful in tests by Anchor Serum Company, St. Joseph, Mo.

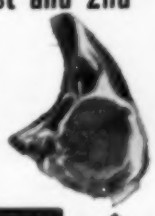
The product, Vitarsol, is administered directly into the drinking water. One pint to 100 gallons of water treats 75 to 100 hogs for one day. Company officials feel it important to administer a treatment of this kind in drinking water, since scouring animals seldom eat properly but do crave water.

Iowa Angus Day

The Iowa State Angus Association field day will be Sunday, July 24, at Iowa State College, Ames. The Tallcorn Angus Association is host. There will be no judging contest or weight guessing—instead a new educational program. It will be held in the air-conditioned Memorial Union. Wives do not have to bring food. The food will be available in the cafeteria. Service starts at 12 noon. Registration starts at 10 a.m. At 11 a.m., the National Angus Association movie, "Mr. Black", will be shown at the Union. A very constructive and educational program has been arranged. A cordial welcome is extended to all.

HAMPSHIRE SALE
Sale at farm, located north of Mt. Pleasant and near
Wayland, Ia., July 28
50 CHOICE BRED SOWS
10 TOP SPRING BOARS
The sows and gilts are granddaughters and great granddaughters of **GOLDEN RULE.** They are bred to **WESTERN MODEL 1st** 666021, son of Western Express, the McDonald boar, and **WAYLAND CHOICE** 669633, the great McGuire breeding. The **10** top spring boars are by **WESTERN MODEL 1st** and **MISCHIEF GOLD.**
A SPRING BOAR FREE at sale. To be eligible you must have a purebred Hampshire Herd and be at sale or send a mail bid.
Plan now to attend. Ask for **FREE** catalog. Kindly mention this publication. Address
E. R. BRENNEMAN & SONS
Wayland, Iowa

ATTEND! THE MOST IMPORTANT MEAT-HOG EVENT OF THE YEAR
17th Annual National Hampshire Conference
INDIANAPOLIS, INDIANA
STATE FAIRGROUNDS
Sun., Mon., and Tues., July 31st, Aug. 1st and 2nd
New features! Greater benefits! Spotlighting the progress of the **first** and only **fully balanced** national program for meat improvement—**Certification of Hampshire Meat Strains,** dedicated to increased production-profits and more **lean pork** in the nation's meat diet . . . **THREE CROWDED DAYS** of pleasure, information and inspiration, free for all the family. Shows of breeding stock, barrows and carcasses and judging contests for all. **TWO BIG AUCTIONS—bred gilts** on **Monday evening; boars** and **open gilts** on **Tuesday afternoon**—foundation animals from the leading herds of all sections. Be on hand!



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MEAT TYPE BOARS
We have best quality boars to offer the year around. Our boars will contribute **HYBRID** vigor, stronger pigs, better mothers, faster gain, on less feed per **100** lbs. of gain. Larger litters raised to market, and a solid **MEAT TYPE** carcass. Save **$50** to **$75** per boar and buy direct. No salesman's commission to pay. Our strains are exclusive. All animals guaranteed to be clean and breeders.
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Mt. Pleasant, Iowa

HYBRID HOGS
Meat Type Hybrid — Get the Full Story
1. Save 20 lbs. feed per 100 lbs. gain.
2. Raise 1-2 more pigs per litter.
3. Go to market 2 weeks sooner.
HERE'S PROOF: Over 2 million pigs sired by Wilson Hybrid Boars—800 customers—8 years continuous increase in sales. Vaccinated for Cholera and Erysipelas, blood tested. Guaranteed breeders. Free delivery. Write for free literature. Dealership available.
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The only herd backed by 18 years performance testing.
1. Save 10 to 20% on feed.
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Guaranteed breeders. We deliver. Phone 265F6. Farm 1½ miles northwest.
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Iowa State College foundation stock since 1948
FOR IMMEDIATE SALE
Weanling pigs, boars, gilts, also bred sows and gilts. SIRED BY: J. H. Landlord of Lady Gillebo and Spangbola breeding, imported in dam, also Iowa State College and USDA (Beltsville) blood lines.
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Brucellosis Free. Visitors Welcome
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Breeding Stock. Registered **DANISH, NORWEGIAN,** and **SWEEDISH** strains. Sure way to change land hogs to **MEAT** Animals. Accredited Brucellosis Free.
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AMERICAN LANDRACE
BREEDING STOCK
Herd inspection invited.
Brood Sows, Gilts and **Boars** now available.
J. H. SCHROOTEN R. 1, FAIRMONT, MINN.

TAMWORTHS

TAMWORTH SALE
At fair grounds, west Locust St.
DAVENPORT, IOWA
FRIDAY, AUGUST 5th
Night Sale — 8:00 P. M.
60 REAL MEAT-TYPE
10 Sows bred for August and September farrow
45 Gilts bred for August and September farrow
5 Outstanding Fall Boars
All out of prize-winning stock, the ideal long, **MEAT-TYPE** kind. BANGS FREE and Guaranteed. Ask for **FREE** catalog. Address
HAROLD ECKERMANN, R. 3, Davenport, Iowa, or PAUL PAETOW, Andover, Iowa

TAMWORTH BOARS
Choice Boars — ready now. Genuine **MEAT-TYPE**—not an imitation. Outstanding cross on any breed. All Bangs free. Sale (Nite) Aug. 5th.
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YORKSHIRES

ENGLISH YORKSHIRE SALE
Fastest Growing MEAT-TYPE
Jones County Fair Grounds
MONTICELLO, IOWA
THURSDAY, JULY 28th
Night Sale Starting at 7:30 P. M.
58 HEAD
BRED SOWS — BRED GILTS
OPEN GILTS
FALL BOARS — SPRING BOARS
Rich breeding, pleasing quality. Herd State Accredited for **Brucellosis** Certificate No. 115. **COME!** Ask for **FREE** catalog. Kindly mention this publication. Address
R. G. MIEHE & SON
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YORKSHIRES
Choice sows bred to Champion at National Barrow Show, a top sire, mated for July farrow. Gilts bred for Aug. and Sept. farrow. Also good **FALL** Boars. Reasonable. Farm 1½ mi. E. & ½ mi. S.
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For **FREE** information about YORKSHIRES and list of Iowa Yorkshire Breeders, write now
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YORKSHIRES

YORKSHIRE SALE
Brown County Fair Grounds
NEW ULM, MINN., FRI., AUG. 12th
Night Sale starting at 7:30 P. M.
60 REGISTERED HOGS
30 BRED GILTS —10 BRED SOWS
10 OPEN GILTS — 10 TOP SPRING BOARS
Choice breeding, excellent type. Ask now for **FREE** catalog. Address
ROLAND REMUS, Owner, SLEEPY EYE, MINN.

SHEEP

CORRIEDALES
2nd World Conference
8TH ALL-AMERICAN SHOW & SALE
LARAMIE, WYOMING, JULY 26-27-28
Ask now for **FREE** information and catalog. Kindly mention this publication. Address
ROLLO E. SINGLETON
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AMERICAN CORRIEDALE ASSOCIATION, INC.

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SAVE MONEY! For Sale, Contract **WYOMING** Feeder Lambs and short term breeding **EWES** now for fall delivery. **500** Yearling RAMBOUILLET **EWES,** weight 120 lbs., for immediate delivery, and **500** short toothed Wyoming **EWES** for July delivery. Ideal for early breeding.
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Purebred Border Collies English Shepherds America's most useful dogs. Puppies all ages. Both sexes. Choice colors. Faithful workers. Satisfaction guaranteed.
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Choice pups raised from natural heelers. Guaranteed satisfaction. Training instructions. Some partly trained.
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Guaranteed heelers, year's trial. Males, females, spayed females $15.00. Training instructions. Distemper vaccinated. Also Registered Collies.
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Genuine English Shepherd and Border Collie Pups. (Either sex—also spayed females $15.00.) Order direct from this ad. Give color. (Satisfaction guaranteed.) 65,000 satisfied customers. (45 years on same farm.) Stepsaver-heeldriving farm dogs. No fooling.) Training instructions, year trial, distemper vaccinated. **Runfis Kennels, Reinbeck, Iowa.**

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ENGLISH SHEPHERD PUPS
Guaranteed to bring home the cows. Year's trial. Choice of sex. Spayed females a specialty. Priced right.
CLOVERDALE FARM ACKLEY, IOWA

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You are invited to see an irrigation system now in operation right in the heart of Iowa.

We have arranged with North River Farms, 8 miles south of Des Moines on U. S. 69 to open their farm to visitors to see a modern Ames irrigation system at work. See for yourself the effect of irrigation. See for yourself the ease of handling the system.

Here is a working system, such as you could use on your own farm. Compact, completely adaptable to use on many fields on the North River Farms, this system has been working for over a month.

We have engineered this system to demonstrate the flexibility, complete usefulness of irrigation in Iowa. Full use of soil absorption, water availability, land contour, pump requirements, application rates are shown in this system.

I will be glad to tell you exactly how this system was engineered so that you can see why I say an engineered system will save you money and make full use of your water resources.

Mail coupon or call me in Des Moines at 8-7491 and I will be glad to act as a guide and explain the North River Farm system. With Ames equipment and proper engineering you, too, can modernize with irrigation

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Offset hitch is a new feature in this forage harvester. Made especially for farmers who have small tractors. Cuts 58 inches. Spout can be changed for rear or side delivery. One pin changes hitch to transport position. Made by Lundell Mfg. Co.

Paint spraying outfit designed for the do-it-yourself demand. Will also apply insecticides, and fumigants. It's single cylinder, piston type. Pressure Pal is made by Campbell-Hausfield Co.

Smoothy is a wood working tool that is claimed to plane, sand, rasp and file all wood surfaces. Will also smooth plaster or painted surfaces. Made of plastic with four tempered, steel-toothed blades. Easy to grip. Manufactured by Fortune Laboratories, Inc.

Forage blower and wagon unloader is powered by tractor power-take-off. No belt to line up. Three wheeled suspension is time-saver in several ways. Blower pipe can be set at any angle, 30 degrees to vertical. Made by Kools Brothers, Inc.

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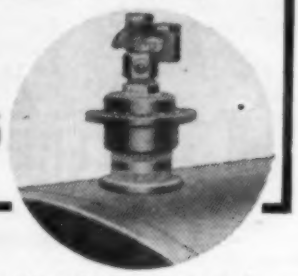
A McDonald Plate 240 farm tank vent cap pays for itself with the gas it saves!

Costs you only $7.65



Evaporation losses from your gasoline farm tanks can cost you dollars a month — dollars you save with a McDonald Plate 246 Farm Tank Vent Cap. Actual tests prove that the McDonald Vent Cap can pay for itself in only 3 months. And it does more than save gas! It maintains the performance quality of your gasoline—gives you maximum engine efficiency. It's rustproof, corrosion proof, easy to install, with a full ¾" vent and special fusible plug for explosion protection.

Write to A. Y. McDonald Mfg. Co., Dubuque, Iowa, for complete information. Or see your farm equipment dealer. If he doesn't have them, contact the McDonald Branch* nearest you.

*Dubuque, Burlington, Waterloo, Des Moines, Spencer and Sioux City, Iowa; Omaha, Nebr.

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McDonald — DUBUQUE, IOWA

Cattle King OILER

The "LOW COST" Way to CONTROL FLIES and LICE!

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The Method Recommended By So Many State Colleges!

Cattle treat themselves. Rub insecticide all over. Apply it where and when needed. Improved, new-type roller applicator gets real results at really low cost. Roller is "spring encased" for longer wear and greater "scratchability." Easy to fill with patented filler magazine. Easy to install! No pulleys or weights. Attaches to any post.

Recommended INSECTICIDE CONCENTRATE

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Mixes 1 to 4 with #2 fuel oil, diesel oil or petroleum distillate for use in cattle oilers. Mixes up to 1 to 48 with water to spray for residual control of Horn Flies, House Flies, Stable Flies, fleas, gnats and mosquitoes . . . only $7.50 per gal.

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Order 1 Gal. of Methanox with each Cattle King Oiler ordered. Send check with order, and get both for only $26.25, parcel post prepaid. C.O.D. plus postage, if you prefer. Money-back guarantee! Order direct.

BOTH For Only $26.25 Postpaid

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Innes WINDROW PICK-UPS

We claim it's the best because it gets off the grain in so quickly, without wrapping, shelling or clogging. Easiest there is to put on and take off. Built to last. Ask your dealer or write us for full information — address Innes Company, Bettendorf, Iowa

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Chopped grass is hauled to cattle by Ted Schnell, Grundy county, Iowa. He says grass goes further that way because none is trampled. And cows give more milk because they eat and lie in the shade. The method may have a future for farms with available labor.

What's Ahead...

JUNE WAS DRY this year for much of the Corn Belt. For Iowa, it was only the third dry June since the drouthy summers of the thirties. Other dry Junes came in 1948 and 1940.

Homer Hush

In 1948, July and August, following the dry June, were also slightly on the dry side. In 1940, the dry June was followed by two wet months. Bumper corn crops were produced both years.

This year's corn crop can be big, too, if July and August rainfall approaches normal and heat is not excessive. Temperature is really the important thing to watch.

WITH GOOD WEATHER this month and next, you'll need the corn and bean loans this fall. Prices for both grains will be lower than for several years.

Even livestock men may be able to profit by sealing their own corn and buying "free corn."

So you may need storage space this fall. Every week of good weather now makes it more likely that you will.

SPRING PIG CROP just starting to market is up nine percent over last year. But the real early spring pigs were 22 percent above last year. So you can expect the runs of new crop hogs to start early. And you can't expect profit from feeding 200-pound pigs to heavier weights.

CATTLE MOVEMENT to farms of nine states has been heavy since January 1. And it indicates lots of heavy, short-fed cattle will be coming to market this fall.

From January to May, farmers in nine states received 1,185,000 stockers and feeders this year compared to 1,007,000 for the same period last year. Increase was about 18 percent.

But the big increase was in cattle weighing 900 pounds or more. The 900-1,000 kind were up 65 percent; over 1,000 pounds up 136 percent.

FEEDER CATTLE PRICES are on a weather market. Prices went down in late May when many range areas were very dry. Then rains came and prices went up.

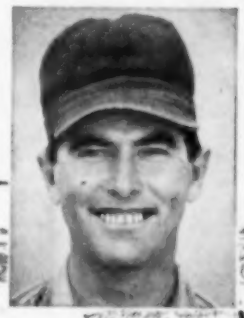
You can expect feeder and stock prices to continue to act that way for a month or two. There are few signs now of sharply lower feeder cattle prices unless pastures get dry and corn raisers get a weather scare.

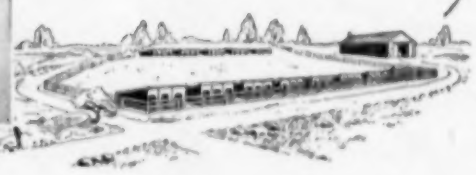
STRONGER PRICES on old hens indicate the culling rate is down. Many old hens will be held over to produce eggs. Holdover of old hens will offset some of the effect of the 18 percent cut in young chickens on farms. You can expect egg prices to go up this fall anyway. But don't expect them to go sky-high. There'll be lots of eggs and other protein food available to customers.

40 GOLDEN ACRES

by ROSCOE POLLITT

Manager, Semi-Solid Demonstration Farm, Des Moines, Iowa





BRING YOUR SORTING CANE when you visit "40 Golden Acres" at the junction of U.S. 6 and Iowa Route 64 northeast of Des Moines. We have 719 pigs growing out on the Semi-Solid system and it looks like they'll all be going over the scales and up the loading chute in the next few weeks. Farm visitors tell me these will be the largest lot of pigs ever marketed with an over nine per litter average. They're sure a sight to see.

* * *

THEY'RE "COOL HOGS." And I think that's the main reason we are piling on gains of close to two pounds per head per day in the final month before marketing. When the weather turns hot I wet down the concrete floors of these sleeping sheds and the fat shoats lounge in the shade in the cross-ventilated sheds on our feeding line.

* * *

A MORNING DRINK OF PIG EMULSION, though, brings our hogs charging out to line the troughs. Pig Emulsion is a "cooling" drink. The half pound that each pig gets is dissolved in a half-gallon of water so the shoats get a part of their daily water requirement with the morning feed. Even when your hogs are too hot or too full to take on more dry feed, they'll line the trough for Pig Emulsion

* * *

THEY'LL BANG THE FEEDER LIDS, too, after they've drained the troughs. Almost every shoat makes a stop at the corn and the supplement self-feeders before he goes back to lie down. And, if it has been a really hot day, I'll hear the feeder lids banging all night as the hogs "stoke up."

Fattening hogs should eat 4% of their body weight in feed per day. A cooling drink of Pig Emulsion keeps Summer feed intake up and sparks gains of two pounds or better per head.

* * *

Beat The Heat and push your Spring pigs to market. Our booklet "40 Golden Acres," shows you how to keep your pigs cool and collect. Just a postcard to me—Roscoe Pollitt, manager, "40 Golden Acres," R.F.D., Altoona, Iowa, will bring you a free copy of this 80-page booklet. It has equipment drawings, photos, and rations and feeding instructions to keep your hogs eating and gaining in hot weather. © 1955—Consolidated Products Co.

THE TANK TRUCK

He plans today . . . for tomorrow's profits!

OIL-GOBBLER? *Not this tractor, which gets regular changes of Conoco Super Motor Oil. "Cheapest maintenance going," says Charley to Conoco Agent E. M. Van Zandt.*

GOOD PROFIT TEAM! *"I need good equipment," says farmer Schoener, "because harvesting 13,000 pounds of maize daily leaves me little time for breakdowns!"*

Like most farmers who've faced good times and bad, Charley Schoener, Jr., of Victoria, Texas, will agree that farming's about 90% gumption and 10% guesswork. And a big part of that 90% means keeping equipment in top condition!

Whether you're raising over 100 bales of prime cotton (as Charley did in 1954) or harvesting 700,000 pounds of maize, your costs per acre go 'way down when you by-pass time-wasting snarls and breakdowns.

That's one sound reason why Conoco Super Motor Oil and Conoco Super Lube have been mainstays around Charley's farm for the past 10 years. "I believe that proper lubrication is the cheapest maintenance a man can buy," Charley recently told us, "and, since using Conoco products, I'm sure of my facts! As proof of this, I've never had to take the heads or pans off my tractors, and that even goes for a used tractor I bought back in 1942!

"Right now, I'm farming 375 acres, but with the fine job Conoco products are doing, I plan to work 1,225 acres by 1956! Sure, that's a big 327% increase in acreage, which means I'll be banking on Conoco more than ever!"

These days, it will pay *you* to bank on dependable Conoco products, the same as Charley Schoener, Jr. Today, why not give your Conoco Man a call? Remember: it's his job . . . and his pleasure . . . to help you out!

Get "full-time" engine protection with New Conoco Super Motor Oil!

America's first *Double-Duty* motor oil gives "full-time" protection against friction and acid wear.

Oil-Plating® conquers friction wear by binding a thin film of lubricant to engine surfaces. This film sticks, won't drain down, even overnight!

Oil-Cleansing conquers corrosive wear by neutralizing combustion acids, by rust-proofing your engine, by holding dirt, dust, and engine "refuse" in harmless oil suspensions until draining time.

Today, ask your Conoco Man for New Conoco Super Motor Oil. Comes in all recommended grades.

QUICK YEAST BUNS

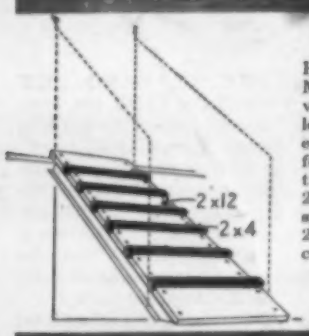
by Mrs. Adrian J. Fischer, RFD No. 1, Bismarck, North Dakota

- 2 cakes compressed yeast
- 1 tablespoon sugar
- 3 cups flour
- 1 cup scalded milk
- 1 cup warm water
- ½ teaspoon salt
- ⅓ cup sugar
- 6 tablespoons melted shortening
- 3 eggs, well beaten
- 3½ cups flour

Mix and set aside the yeast cakes and 1 tablespoon sugar. Then, mix 3 cups flour, cup scalded milk and cup warm water. To this, add yeast mixture. Add remaining ingredients in order and mix by electric mixer or spoon. Set recipe aside until double in bulk, then shape into buns. Let rise again. Bake at 375 degrees for 20 minutes. Makes about 24 delicious medium-size buns.

SHEARS FOR RECIPES! Send favorite recipes to Mrs. Annie Lee Wheeler, Dept. L., Conoco Cafeteria, Ponca City, Oklahoma. A pair of Wiss Pinking Shears, worth $8.95, awarded for every recipe published with your name. All recipes become the property of Continental Oil Company.

Non-Slip Chute



Herbert F. Meyer of McKittrick, Mo., advises that a livestock loading-chute floor is easy to build. On platform, lay 2" x 12" sections crosswise with 2" x 4" cleat on edge and spiked to edges of the 2" x 12". Cleat will not come off or slip.

Saws for Ideas!

Mail your original ideas to *The Tank Truck*, Dept. L., Continental Oil Company, Ponca City, Oklahoma, and get a D-15 Henry Disston Hand Saw, worth $10.25, for every idea printed. All ideas become the property of Continental Oil Company.

Your car deserves Conoco Super Gasoline with TCP!

Regardless of make or year, your car, truck and tractor will benefit from Conoco Super Gasoline with TCP. This astonishing *new kind* of fuel combines a controlled higher-octane rating with all the wonderful power benefits of TCP. With TCP, you'll enjoy up to 15% more power, better gas mileage, longer spark-plug life, and all the benefits of an engine tune-up. Today, start using Conoco Super Gasoline with TCP.

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CONOCO

*Trademark owned and patent applied for by Shell Oil Company.

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